Canada Lite

Assurance Company

Mortality Experience
1847 to 1893

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MORTALITY EXPERIENCE

OF THE

CANADA LIFE

ASSURANCE COMPANY

FROM 1847 TO 1893.

HAMILION, ONTARIO;
TIMES PRINTING COMPANY,
1895.



Canada Sife Assurance Company's Offices, Kamillon, Ont., 1st March, 1895,

A. G. RAMSAY. Esq., F. S. S., F. I. A., Actuary and President, Canada Life Assurance Company.

DEAR SIR :-

Pursuant to your instructions, and acting under your directions, I have completed the Mortality Investigation so far as at present intended for purpose of publication. With the character and scope of the work you are already familiar, and it is hoped the results brought out will be of interest and service to the Board of Directors and to many others interested in such an investigation.

The work has been done cheerfully, and it is believed carefully, by those to whom you have assigned that duty.

For valuable assistance in the graduation of the Mortality Tables I am indebted to Mr. A. K. Blackadar, M. A., F. I. A., Actuary of the Insurance Department, Ottawa, and to Mr. R. Henderson, B. A., A. I. A., of the same Department.

While this is the first, it is hoped that it will not be the only mortality experience, to be published by a Canadian company, for it is only by such investigations that "facts are substituted for appearances and demonstrations for impressions."

Very respectfully,

Frank Sanderson,

Assistant Actuary

MORTALITY EXPERIENCE

OF THE

CANADA LIFE ASSURANCE COY.

The present investigation into the mortality experience of the Canada Life Assurance Company, from its origin in 1847 to the year 1893—a period of 46 years—possesses more than a local interest.

It is the first investigation of the kind that has been undertaken and published in the Dominion of Canada.

It is, too, the experience of the oldest Canadian Company, a company that has grown up with this young country, and that has become one of its recognized institutions.

It is the experience of a company that has been built up slowly but securely along conservative British lines, and hence it is a better exponent of the rates of mortality in Canada than if its history were shorter, and its volume of business more rapidly and recently secured under the well-known conditions that usually prevail in America. It is, too, the first and only published experience of assured male lives for the northern half of the North American Continent.

Object in View.

Various companies in the United States and elsewhere have published their mortality experience, but the object in view does not in all cases seem to have been the same. In some, every policy on which any premium had been paid was included in the general observations, whether the life was "select," or "rated up," either permanently as an under-average life, or temperarily for occupation or risk of travel

While the resulting rates of mortality may be the actual experience of the company on all its lives, it may not be a very faithful exponent of the mortality prevailing among lives taken as select at the ordinary rate of premium.

The chief object in view in the following investigation has been to determine, for the guidance of the company in particular, and for the benefit of other companies and individuals interested, what rates of mortality have prevailed among male lives which were accepted as "healthy," "select" lives at the usual rate of premium. Then, comparing these rates with those of the Table of Mortality adopted as the official standard, as well as with other Tables, we are enabled to state to what extent the actual experience has deviated from the standard table and from other tables, and whether the contracts now being entered into can, in the distant future, be securely and equitably carried out on the present basis, or whether any change is desirable. Much light is also thrown on the question of selection, and means are afforded for various other subsidiary investigations of importance and interest.

Methods of Treatment.

It follows immediately from the foregoing statement, that all exposures on lives rated-up or charged any extra premium must be rigidly excluded from the general experience. The only exception to this is in the case of lives under 21 years of age, which, according to the practice of the company, are accepted as at 21, but which, in this experience, have been taken at their true age.

The female lives, which were few in number, have also been excluded. As the company has not to any extent dealt in annuities, survivorships or pure endowments, none such are included, so that the present is the experience of assured male lives accepted and continued as "average" lives.

The rated-up male lives (permanent extras) have been dealt with separately. Lives charged a temporary extra for travel, etc., are not included in this experience.

In deciding whether the experience should be developed upon the basis of lives or amounts, the conclusion arrived at was that while an investigation by amounts is of practical interest and of special value when the number of observations is very large, the results by lives would on the whole be preferable where, as in the present case, the number of observations is not large in comparison with several representative and standard experiences. For large experiences an investigation by amounts may be preferred, but for an individual office of moderate size, the results by lives will prob-

ably be more regular, and a better guide for the future than those developed by amounts. Lives were therefore adopted as the basis.

For ascertaining the necessary data, the essential particulars of each policy upon which a premium had ever been paid were written on a eard of which the following is a copy:

| NoSyste | em | | <i>, \$</i> |
|--------------------------|---|------|-------------|
| Life | | | |
| | Increased | | |
| Pate of | Day, Month, Year. | Age. | Duration. |
| Surt'i. Entry Exit () | | | |
| Ordinary Pres | rged, \$ nium, \$ eased on account of | | |
| Cause of Deat | <i>h</i> | | |
| Remarks. | | | |

Although the particulars of "amounts assured," "occupation," and "cause of death" have not been made use of in the present investigation, it was deemed expedient, for future use, to embody these facts on the cards.

Some progress had been made in writing up the particulars on the cards (except the durations and exits) before it was finally decided whether to adopt the well-established calendar year method or the more modern policy year method for tabulating the observations. As this is a point of considerable importance, and as the present experience is intended for the intelligent but non-professional reader as well as for

those who are familiar with the principles and methods herein described, it may be well to explain as briefly and as clearly as possible the technical difference between these two methods; under other conditions this and several other of the detailed explanations herein might be omitted.

According to the calendar year method the lives are assumed to enter the company, on the average, at the middle of the calendar year, and (where the office age is the age next birthday, as in British and Canadian companies) the lives are regarded as attaining the office age at the end of the calendar year of entry. Thus the interval between the average date of entry and the attainment of the stated age at entry is assumed to be six months. The first year of assurance is thus seen to contain only six months and is usually called year "O," sometimes also year "I" and sometimes year "\frac{1}{2}"

According to the policy year method, calendar years are disregarded, and the risk on each life is traced from anniversary to anniversary of the policy. Thus "year of assurance 1" covers the 12 months following the grant of the assurance; the succeeding 12 months form "year of assurance 2," and so on. By this means we are enabled to allocate each death to the exact policy year in which that death occurred, and hence to determine with precision the true rate of mortality for each policy year of assurance. This is a matter of vital importance, and it constitutes the distinguishing characteristic of the policy year method.

In favor of the adoption of the calendar year method for the present investigation, was the fact that it was much simpler, requiring less data to be extracted, and less time to complete the work. Moreover, this method had been adopted in most of the older and larger published experiences, such as the Combined Experience, the Institute of Actuaries Experience, the 30 American Offices, and the Mutual Life Insurance Co. of New York (1876).

On the other hand, the experiences of the Amicable Society, the Eagle Insurance Co., the Scottish Amicable Society, the Gotha Life (German), and the Connecticut Mutual, have been taken out on the policy year method. In recent years the great superiority of the policy year method, especially in the examination of the effects of selection, has been demonstrated.

After a careful examination into all the advantages of each method, it was decided to adopt the policy year method.

The office age at entry, i. e., age next birthday, was from the first entered upon the cards, partly by reason of the above uncertainty of the adoption of the calendar or policy year method, and partly because in some of the older assurances the date of birth was not obtainable.

Under other circumstances the mean age, or the nearest age at entry, would doubtless have been adopted, and this would have avoided the reduction of the experience from odd to even ages, as explained later on.

An examination of various published mortality experiences has led to the conviction that in some cases a great deal of their value has been lessened by the absence of detailed explanations and facts which are necessary in attempting to assign the true weight to any particular features.

It has been thought desirable, therefore, on the present occasion, to state explicitly the various steps and principles involved, so that when any comparisons or investigations are instituted, the underlying circumstances may be known.

Classification and Reduction of the Data.

The principal particulars having been entered from the office registers on the cards, these were then all carefully checked over. All permanent and temporary rated-up lives, as well as all female lives, were then eliminated from the general experience. For the reasons previously indicated the age at entry was the office age, The next step was to fill in the mode of exit, and it was *i. e.*, age next birthday – decided to tabulate the "exits" under the four subdivisions: Existing, Matured, Withdrawn and Died. The matured contain expired term assurances and matured endowment assurances, and the withdrawn compose lapsed and surrendered cases. It is true the matured constitute but a small portion of the whole, but in view of the uncertainty created by the inclusion of these as an unknown factor among the withdrawals when the rate of discontinuance is under discussion, it was thought advisable to make a separate class of them. It is not to be understood, however, that all the matured endowment assurance policies of the company appear under the head of "matured," for, as frequently happens, if a life were still existing under a life policy, and an endowment assurance (upon which the risk was continuous with the life policy) had matured prior to the close of the observations, the endowment assurance card would have been combined with the life card, and the life assured thereunder would be classed under the head of "existing." The "exits" were all checked with the office registers.

The term policies have been so limited in number, and have apparently exercised so little, if any, adverse influence on the mortality of the company, that it was not thought necessary to exclude them, which latter course, under other circumstances, would have been desirable. It is hoped that the separation of the matured from the withdrawn, and the publication of the data of these two classes in detail (an unusual course for an individual company) will be of service to any persons who may wish to make further use of this experience in examining the rate of discontinuance.

With regard to the important question of the duration of the risks, the existing were carried to the anniversaries of the policies in the year 1893, the duration being found by subtracting the year of entry from the year 1893, thus giving an integral number of years in all existing cases. The deaths have been carefully located in the policy year in which death took place, this being an essential feature of the policy year method. The original observations being scheduled by years of assurance and not by ages at exit, the "deaths" were, as is usual, observed to the close of the year, thus giving the duration as an integer in each case. The age at death in the aggregate table of mortality is the age at entry plus the curtate duration.

For the withdrawn and the matured the "nearest duration method" was adopted.

When the duration was, say, $n + \frac{1}{2}$ years, the $\frac{1}{2}$ was alternately dropped and increased $\frac{1}{2}$. In the first year of assurance the duration of a withdrawal at the end of three months was taken as "o"; at the end of nine months as "1" year, and at the end of six months alternately as "o" and "1". A corresponding course was pursued in succeeding years of assurance.

It being decided to develop the experience upon lives, the next step was to bring together all cards relating to the same life.

The presence of the date of birth on most of the cards greatly facilitated the examination into cases where both Christian name and surname were the same. After the cards had thus been brought together a number of cases were discovered in which discrepancies as to age existed by reason of the assured having given different dates of birth in different applications. In such cases (if the life were still assured) circular letters were sent out asking for evidence as to the correct date. By this means a number of the discrepancies were rectified. If the life passed out of observation by death, the age at entry was adjusted by means of the date of birth given in the claim papers. When no information was obtainable, as on lives withdrawn, it usually

happened that from the examination of the cards the dates on two or three or four cards would be the same and that on one card different. In such cases the prevailing date was adopted for determining the age at entry. In all other cases the date of birth given on the first application was adopted, where obtainable.

The next step was to examine whether or not the assurances on the same life were continuous. Where the risk on different policies was continuous the cards were placed in an envelope, with the proper duration and other particulars from the cards placed on the back, and these policies were afterwards treated as one continuous risk on one life. Thus the observations were reduced from policies to lives. From this point, therefore, we deal only with *lives*.

In the next place, the cards, thus reduced, were sorted into Existing, Withdrawn, Matured and Died. Each of these groups was then sorted according to age at entry (next birthday). Each of these sub-groups was then further sub-divided according to years of assurance. The cards in each of these final sub-groups were then counted and tabulated in the form in which they are now published. After the cards had been thus counted and scheduled, the next step was the calculation of the "Exposed to Risk of Death." To illustrate this take age at entry 25 (Table 1). There are 1765 entrants, of whom 67 withdrew within six months, that is, these 67 are composed of all the withdrawals at the end of the first quarter, and one-half the withdrawals at the end of the second quarter. As before explained, these are held not to have been under observation, but are simply recorded and used when dealing with the rate of discontinuance. The remaining 1698 are, as a consequence of the "nearest duration methol," held to have been at risk throughout the whole year. At the end of "year 1" 362 pass out of observation—6 by death, 278 as withdrawn, and 78 as existing—leaving 1336 exposed to risk during "year of assurance 2," of whom 151 pass from observation at the end of the year—9 by death, 88 withdrawn and 54 existing.

The "exposed to risk" for the remaining years of assurance are similarly calculated.

Range of the Experience.

As indicated at the outset, the present experience covers a period of 46 years, and the years of life exposed were 296,481. Hence, while the number of observations is not so great relatively as in several other experiences, the period over which the observations extend is such as to make the results of special value. The total number

of entrants was 35,287, of whom 55.03 per cent. were existing at the close of the observations in 1893; 37.07 per cent had withdrawn and matured; and 7.9 per cent had died.

The average age at entry (next birthday) was 32.05 and the average duration of membership was 8.40 years, or 8.36 years counting the year of death as one-half year. As a matter of caution to some persons who frequently draw wrong conclusions from such figures, it may be stated that the average duration of membership of those who died was 13.55 years, counting the year of death as a whole year. In the following table these averages are brought into comparison with those of three large representative experiences.

| • | Average duration of the Died. Years. | Average duration of the Total Entrants, Years, |
|-------------------------|--|--|
| 20 British Offices (Hm) | . 13.50 | 9.22 |
| 30 American Offices | . 5.94 | 4.40 |
| 23 German Offices | . 9.81 | 6.52 |
| Canada Life | . 13.55 | 8.40 |

The average duration of the died in the Canada Life was almost identical with that in the Hm. experience, and more than twice as great as in the 30 American Offices.

Among individual offices the average duration of membership was as follows: Mutual Life, N. Y., 5.67 years; Mutual Benefit, N. J., 6.53 years; Connecticut Mutual, 7.98 years; Australian Mutual Provident Society, 6.20 years.

In the following table is given a summary of the data contained in the present investigation.

| Ex | isting. | Withdra Mati | wn and red. | Di | ed. | Total | Total | Av. dura- tion of Member- | | ge Age Intry, |
|--------|--------------------------|-----------------|--------------------------|---------|--------------------------|-----------|-----------------------------|---------------------------------|---------------|-----------------------|
| Number | Percent, of Entrants. | Number. | Percent. of Entrants. | Number. | Percent. of Entrants. | Entrants. | Entrants. Years of Life. | | Age attained. | Age next Birthday. |
| 19,419 | 55.03 | 13,079 | 37 07 | 2,789 | 7.90 | 35.287 | 296,481 | 8.40 | 31.72 | 32.05 |

As will be seen when dealing with the rate of discontinuance, nearly half the withdrawals belong to the first year of assurance.

As a matter of record and to aid in forming some idea of the different circumstances and characteristics of mortality experiences frequently referred to, it may be well to bring together, as in the following table, the principal features of each.

TABLE SHOWING THE DATA OF DIFFERENT MORTALITY EXPERIENCES.

| NAMI | Date Die of of other of the other of the other of the other of the other | Dece of Public Dott | Pina distriction Nearly Veats | Simpler of Lotton | Numbe Existing | N mile Discon unured | Number Leed | * - Z & Z | Per entage of University Interest. | Dr-1. | Years of Life Exp ved | Average Age act Losts | Average Duration of Mem'er- | Mortality for cert Per Annum |
|-----------------------------------|--|------------------------------|---|---|-------------------|----------------------------|----------------|-----------|------------------------------------|--------|--------------------------|--------------------------------|--------------------------------------|---------------------------------------|
| Equicable | 1829 | 1834 | 19 | 21.308 | 6,930 | 9,324 | 5,144 | 32 39 | 5,144 32 39 43.57 24.04 | 24.0.1 | 255.280 | : | 11.93 | 0. |
| Amicable | 1841 | 1841 | 33 | 3,530 | 2,227 | ιΟ Ο ΙΟ | 202 | 63 09 | 14.30 | 19.22 | 38.769 | : | 10.98 | 2.06 |
| S ottish Amicable | 1860 | 1861 | ÷ | 8,596 | 5,414 | 2,550 | 632 | 62.98 | 29.62 | 7 35 | 48,348 | : | 5,62 | 1.31 |
| Institute of Actuaries, 11m | 1862 | 6981 | = ===================================== | 130,243 | 24.698 | 35.024 | 20,521 | 16.35 | 26.89 | 13.76 | 1,200,400 | 34.96 | 9.22 | 1 - |
| Mutual Lite, N. Y | 1873 | 9281 | 31 | 290:151 | 68,688 | 10222 | 5.51 | 67.36 | 27.23 | 14. | 578,113 | 34.95 | 2.67 | 50. |
| Inity American Offices | 1.87.4 | 1881 | 30 | 30 982,734 | 527,157 | 111,092 | 44.485 | 19.85 | 4183 | 4.53 | 4,327 086 | 35.23 | 0 | 5.5 |
| Gotha Life | 1878 1881 | 1881 | 50 | 76,986 | 17,596 | 9,391 | 19.999 | 61.82 | 12.20 | 25 98 | 924.036 | 35.00 | 12.65 | ir. |
| Mutud Benefit | 6281 | 0881 | | 187,127 | | | 6.739 | _ | | 1.73 | 568,941 | : | 6.53 | 2.1.2 |
| Cornectiont Mutual (Males),, 1878 | 878 | 1884 | 55 | 62226 | 28.00 | 38,201 | 8,746 | 51.93 | 39.13 | 8.04 | 780,353 | | 7.08 | 1.12 |
| Scottish Widows Fund | 1884 | | 30 | 39.303 | 100 | 0.762 | 7.317 | 81 19 | 17.20 | 18 62 | 477.053 | 33.74 | 12.16 | £, |
| Australian Musual Provident | 15553 | 1583 1891 2 | <u></u> | 134:421 | 73.632 | 35,006 | 5:743 | 04.32 | 30.60 | 0, | 710,170 | 3200 | 6.20 | S. |
| Canada Jates | 1893 | 1805 46 | 46 | 17 CC | 19.410 | 13.070 | 2.780 | 50.55 | 37 07 | . t. | 200.481 | 21 18 | Č Š | |

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In the Amicable, Scorpsh Amicable, Gotha Life, Connecticut Mutual and Canada Life Experiences the Policy Year Method was used, in the others the Calendar Vear Method.

* Approximate

The original facts used in the construction of the various tables will be found in Table I., extending from age 15 at entry to 71. Table II. is a summary of the observations in Table I.

To assist in referring from the tables to their explanation herein, the number of the table is printed in black-faced type where first referred to.

The Mortality Table.

Having briefly explained the preliminary steps that led up to the tabulation of the data as in Table 1., it is now necessary to state how the final aggregate table of mortality has been deduced.

The data in Table I. was first scheduled according to "exposed" and "died" for each age attained (next birthday). As previously stated, the age attained for the "died" is the age at entry plus the curtate duration of the "died". Up to this point the ages are those for next birthday, and it now became necessary to deal, as is customary, with completed ages.

During the progress of the investigation the cards had been sampled and it was found by various trials that the office age or age next birthday was, on an average, approximately one-third of a year greater than the true age at entry, and it was determined to use this fraction of a year in place of the usual half year in reducing the experience from fractional to integral ages. The original facts used in the construction of the general table, viz.: the exposures and deaths at ages $14\frac{2}{3}$, $15\frac{2}{3}$, etc., will be found in Table III., Part I., the argument being set down one-third greater than the real age. From these the values of $\log p_{x-y_3}$ were taken out, and then by continuous addition those of $\log l_{x-y_3}$ were obtained. The values of l_{x-y_3} were then taken out, and by differencing those of d_{x-y_3} were derived; and the values of l_x were deduced from the formula $l_x = l_{x-y_3} - \frac{1}{3}d_{x-y_3}$. In consequence of the paucity of the data under age 20, the table begins at age 20 with a radix of 10,000. Thus was obtained Table III., Part 2.

This table is the starting point for a graduation by Woolhouse's or Higham's formula, each of which was tried. The latter was the more satisfactory, but as the values of q_x were slightly irregular at the extremities of the table, it was finally decided to adopt a graduation by Makeham's formula, using the method of Messrs. King and Hardy (slightly modified) to determine the constants. The modification consisted in using the values of $\log l_x$, in place of those of $\log l_x$, with the consequent changes in

the formula for determining the constants. This was done to avoid the assumption contained in the formula $I_i = I_{i-r_i} - \frac{1}{3}d_{i-r_i}$.

The particular combination of ages finally selected for determining the constants, was four periods of fifteen years, from ages $20\frac{2}{3}$ to $79\frac{2}{3}$ inclusive. The usual constants, s, g and c, of Makeham's formula were first determined so that $\Delta \sum_{i=1}^{35} \log l_{r-i}$, $\Delta \sum_{i=1}^{5} l_{r-i}$, should be the same in the adjusted and unadjusted tables.

Having found the values of s, g and c, the value of k is then determined from $\log k = 5$ —20 $\log s - c^{20} \log g$, thus starting the graduated table at age 20, with a radix of 100.000.

The values of the constants thus formed are as follows:

The values of $\log (-\Delta \log p_x)$, $-\Delta \log p_x$, $\log p_x$, $\log l_x$, l_x and q_x were then successfully derived, q_x being formed from $\log p_x$. The complete expectation of life for each age was then calculated. The mortality table thus graduated will be found in Table IV.

To test how closely the expected deaths agreed with the actual deaths by the graduated table, it was necessary to devise some means of bringing the original exposures and deaths to integral ages. The method adopted was to put in the column of exposed opposite age x, $2E_{x-t_1}+E_{x+2j}$, and in the column of deaths $2d_{x-t_1}+d_{x+2j}$, when E is the exposed and d the deaths, thus showing the exposures and deaths at three times their real number.

The number of expected deaths was then calculated by multiplying $2 E_{x=i_3} + E_{x=i_5}$ by q_x . Theoretically it will be found that the column of expected deaths is thus made very slightly greater than its true value.

On the above basis of three times the original exposures, the total expected deaths was practically equal to the number of actual deaths. As the original table of three times the exposures and deaths for integral ages (above referred to) is used later on as the basis of other tables, it is given in **Table V.**, beginning with age 19.

Before proceeding to make any observations on the rates of mortality, as shown in the foregoing tables, the method of constructing the select tables will first be taken up.

The Select Mortality Tables.

The superiority of the policy year method over the calendar method in examining the gradual wearing out of the benefits of selection in the early years of assurance is now an established fact. Hence it seemed desirable on the present occasion, notwithstanding the comparative smallness of the data, to show, at least approximately, this effect of selection.

In the work of forming select tables from the observations, the first step was to construct a table omitting the first five years of assurance. There being no observations above age 73 during these first five years, and very few for the ages (during the same period) immediately preceding 73, the rates of mortality from 73 and upwards would be the same as in the general table, and these latter have accordingly been adopted for the experience after five years.

By means of the graphic method a table was constructed representing the experience after five years and joining on smoothly to the general experience at age 73. This table was tested by comparing actual with expected deaths, and when a serious discrepancy occurred the curve was amended and re-tested until a satisfactory series was obtained.

The original facts and the final adjusted rates of mortality after five years will be found in Table VI.

Having thus obtained a table representing the mortality among lives assured more than five years, it is required, in order to complete the select tables, to determine the mortality during the first five years for each age at entry.

In consequence of the paucity of materials below age 20 and over age 50, the select tables for these years are limited to ages 20 to 50.

For the first year of assurance the exposures and deaths were combined into three groups. The actual and expected death rates in each group were then calculated and the actual death rate set down opposite the age corresponding to the expected. A series proceeding by constant second differences was then determined to pass through these values. The ages and rates were: Age $27\frac{1}{4}$, rate .00265; age $37\frac{1}{4}$, rate .00355; age $46\frac{3}{4}$, rate .00506, from which we get $q_{\text{[20]+0}}$ =.00236958, Δ =.00001326 and Δ^2 =.05000679. The calculations were facilitated by the intervals of age coming out equal.

To determine the rates of mortality in the third year of assurance the exposure and deaths in the second, third and fourth years of assurance for each present age were combined, and from the rates of mortality thus calculated a hypothetical unadjusted mortality table was constructed, which was then graduated by Makeham's formula assuming the value of c the same as in the general table. The rates of mortality calculated from this table were taken as the rates of mortality in the third year of of assurance.

For the second, fourth and fifth years of assurance the rates of mortality were determined independently by interpolation with constant fourth differences.

Thus have been found the rates of mortality in the first, second, third, fourth and fifth years of assurance respectively, and also those after five years of assurance. These rates are given in **Table VII**. Although deduced from limited data, yet the graduated results show a general consistency with the original facts.

From an examination of the mortality of the first year of assurance, it will be seen that the rates are remarkably low, and it might be inferred that some influence such as the dating back of policies had brought about this result by the introduction of a period of exposure where no risk was incurred, but it must be remembered that among the lapses (which are most numerous during the first year of assurance), there is a period of 30 days grace not included in the exposures, and this may be taken as an offset to any non-risk period at the inception of the policy.

A word of explanation to the general reader may be necessary as to the notation used in Table VII. The symbol $q_{\{20\}}$, for example, denotes the probability that a life aged 20, which has just been accepted as a "select" or healthy life, will die within one year; $q_{\{20\}+1}$ is the probability that the same life (should it live through the first year) will die in the second year of assurance; $q_{\{20\}+2}$ is the probability that the same life (if still assured at the end of second year) will die in the third year, and so on; $q_{x(5)}$ denotes the rate of mortality, or probability of dying in a year, of a life that has been assured 5 years and is now aged x. The column $q_{x(5)}$ therefore gives the rates of mortality, excluding the first five years of assurance.

From the rates of mortality in Table VII., the values of l_x were determined so that in that part of the table in which the rate of mortality was the same as in the general graduated table, the numbers in the column of living should also be the same.

These values are brought together in Table VIII., the notation used having a corresponding meaning to that already given to Table VII.

Having obtained the values of l_x and q_x , excluding the first five years of assurance, from age 25 upwards, it will be convenient to have these and relative functions brought together in the form of a graduated mortality table similar to the graduated Table IV for the whole experience.

This has been done in **Table IX**. As before explained, the values of l_x , d_x , q_x and \mathring{e} are the same in both from age 74 upwards.

Table X. gives the graduated experience of the Canada Life, Mutual Life and H^m, excluding the first five years of assurance. It must be remembered, however, that in consequence of the calendar year process only $4\frac{1}{2}$ years are really excluded in the case of the H^m and Mutual Life experiences, the rates being therefore those derived from the experience after $4\frac{1}{2}$ years. Whatever difference is thus created will be in favor of the two experiences just named.

The results given in Tables VII. and VIII. above make it possible to construct tables of annuities, premiums and reserves for lives recently selected, and thus to measure the effect which the benefits of selection have upon the financial operations of a life assurance company. This is foreign to the present investigation, but the subject is of great importance in its bearing upon the ultimately successful conduct of any company.

Observations and Comparisons.

A cursory examination of the graduated mortality table of the Canada Life Assurance Co, both for the whole duration as well as for the period excluding the first five years of assurance, will at once make it evident that the experience of the Company has been remarkably favorable. This is more remarkable when it is said that the volume of new business transacted yearly has not been large when compared with many companies in America; and further, that the whole life assurance business has always been much larger than the endowment assurance business, on the former of which the death loss is generally believed to be heavier than on the latter.

Although neither the system nor the amounts of assurance enter into separate investigation on the present occasion, it may be well to state the relation between the sums assured on life, endowment and other assurances. This is done in the following table, which embraces the whole business of the company, and from which it will be seen that at the end of 1889 the endowment assurances were less than 16°/, of the whole life assurances, and at the end of 1893 they were 17½°/, of the latter, thus

showing an increased percentage of endowment assurances, but the relative amount of such assurances is not large when compared with that in many other companies in America

| | Whole Life Assurances. | Endowment Assurances. | All other Assurances | Bonus Additions. | Total Assurances in Force |
|-------------------|---------------------------|--------------------------|-------------------------|---------------------|---------------------------|
| 31st Dec., 1889\$ | \$40,919,588 | \$6,435,509 | \$106,545 | \$2,058,417 | \$49,519,559 |
| 31st Dec., 1893 | 51,027,429 | 8,802,016 | 90,545 | 2,783,256 | 62,703,246 |

In view of future comparisons it is well, therefore, to keep in mind (1) that the volume of business has been of continuous, but not rapid growth; (2) that whole life assurances largely predominate; (3) that only male lives accepted and continued as "average" lives are included in the present general experience.

To bring into clear view the results of the tables of mortality already described, a series of tables of comparison has been compiled, to which attention is now drawn. By means of these it will be possible to measure to some extent the satisfactory character of the present experience. At the same time, the characteristics and surroundings of each experience must be kept steadily in view, so that undue weight may not be attached to the conclusions which appear to follow from the comparisons.

Expectation of Life.

The first table of comparison is that showing the expectation of life, or average after-life time, according to various graduated tables of mortality. For the United States the expectation of life by four tables are brought into view, viz.: the American Experience, the 30 American Offices, the Mutual Life of New York, and the Mutual Benefit of New Jersey; for Great Britain three tables—the Institute of Actuaries (11th), the Equitable, and the Law Life; for Germany one table—the Gotha Life; for Australia one table—the Australian Mutual Provident Society. To the interesting mortality experience of the last named company, published in 1888, an acknowledgment is due on the present occasion for some figures relating to two or three experiences not easily obtainable.

The expectation of life by these various tables and by the Canada Life experience will be found in Table XI.

Omitting for a moment the Australian Mutual Provident experience, it will be seen from Table XI, that the expectation of life by the Canada Life experience exceeds at all ages that of all the other experiences. It will also be seen that the Mutual Life results at the insuring ages run quite close to, but below those of the Canada Life.

The Standard tables, embracing the experiences of various companies, show a considerably lower expectation throughout than the Canada Life.

For the Australian Mutual Provident Society two columns are given, one according to assumed ages and one according to true ages. The expectations of life by the former exceed those of the Canada Life, while those by the latter are less. It is not possible, therefore, from this table to say which is the more favorable. Further investigation will, it is believed, show that the Canada Life experience is quite as favorable as that of the Australian Mutual Provident, if not more so, when the differing circumstances are taken into account.

Other Comparisons.

For the benefit of many persons, especially in Canada, who have not in their possession the rates of mortality of well-known mortality experiences, Table XII. is given, showing the graduated annual rates of mortality at each age according to the experiences of the Canada Life, American Experience, 30 American Offices, Institute of Actuaries (H^m), Mutual Life of New York, and Mutual Benefit of New Jersey. In the same table will be found the ratio of the Canada Life mortality at each age to that of the other tables mentioned.

From this table it will be seen that the Canada Life mortality is less at all ages than that of the tables named, except from ages 51 to 65 of the Mutual Life of New York, where it is slightly greater. A comparison of this table will show that neither the American experience table nor the Institute of Actuaries (H^m) experience is a very faithful exponent of the mortality as experienced by the Canada Life, the first-named experience, especially, showing, for the younger ages, rates considerably in excess of those of the Canada Life. It must be remembered, however, that the rates at the younger ages in the present experience are those produced very largely by recent selection, and are, therefore, no doubt lower than would ultimately prevail.

The 30 American Offices experience would seem to run more nearly parallel with that of the Canada Life than either of the other two just mentioned. As between the Mutual Life and Mutual Benefit, the latter experience runs more evenly at all ages with that of the Canada Life than the former.

The experiences of these two companies (Mutual Life and Mutual Benefit) were doubtless not confined as exclusively to "average" male lives as the present experience, which would tend to make the latter appear more favorable, but on the other hand, in deducing the rates of these two companies no adjustment appears to

have been made for reducing the experience from fractional to integral ages, a war done in the case of the 30 American Offices' experience. Had this adjustment been made the experience of the Canada Life would have appeared in comparison still more favorable, especially at the older ages. In the case of the Mutual Life the favorable deviation between ages 51 and 65 previously referred to would have thus practically disappeared.

To make still more clear the difference between the mortality experienced by the Canada Life and other companies, Table XIII. is given, showing the exposures and deaths (unadjusted) by quinquennial groups of ages and the expected deaths by other experiences. The exposures for integral ages attained are derived from Table V. by taking one-third thereof, the deaths being taken to the nearest whole number.

From this table it will be seen that from age 20 to 79 the total actual and expected deaths, and the percentages of the one to the other, are as follows:

| | | | | Expects | d Deaths by | the Experienc | e of the | | | |
|----------------------------|--------|----------|--------------------|----------------------|----------------------|---------------|-----------------|------------|------------------------|-----------------|
| Artual Deaths Canada | Matual | Mutual | Connecticu: | American | Thirty | — Нш | Seatish | Unictifica | Austral in M deut S | enty. |
| Life | Life. | Penefit. | Mutual (Males). | Experience Lable. | American Offices. | Fatale. | Widows Fund. | Life. | At Assumed Ages. | At True Ages |
| 27.48 Ratio | 2973.6 | 3124.3 | 3136.2 | 3726.1 | 3190.5 | 3857.7 | 3062. | 3708.2 | 2621.6 | 2800.0 |
| to others | 92.4 | 88. | 87 6 | 73.8 | 86. t | 71.2 | 89.7 | 7-4 . t | 104.8 | 05 1 |

This extract from Table XIII, will at once illustrate the very satisfactory character of the mortality experienced by the Canada Life Assurance Company.

Table XIV. gives the rates of mortality per cent. for quinquennial groups of ages as deduced from each experience therein mentioned. In the case of the American Experience the rates are deduced from the graduated table.

The Influence of Selection.

The next group of tables deals with the effects of selection by different experiences. Graduated select tables for the present experience have already been referred to and given in Tables VII. and VIII. The tables now to be discussed deal with ungraduated results.

In Table XV. the exposures and deaths for all ages combined are arranged according to years of assurance. As the data after 30 years' duration is small in most of the experiences, the comparison is therefore confined to the first thirty years of assurance. In making this comparison caution must be exercised in view of the different characteristics of the experiences. Thus the average age at entry is greater in some than in others. In the case of the II^m table this will partly explain the large excess of expected deaths. Again, the Connecticut Mutual and the Canada Life are the only experiences taken out on the policy year method, the others being on the calendar year plan, with only six months for year of assurance 1. In place of attempting the unsatisfactory task of harmonizing calend ir and policy year experiences, the first six months of the calendar year experiences has been treated as "year 1," the annual rate for the usual "year o" being taken as the rate for the complete year. Whatever difference is thus created will be in favor of the other experiences and adverse to those of the Canada Life and Connecticut Mutual.

In examining Tables XV., XVI. and XVII. the following facts must be kept steadily in view

| Average. | Canada Life. | Mutual Life. | Connecticut Mutual. | Mutual Benefit | Hm. | 30 American Offices. | Λ M. P. Society. |
|--------------------------------------|--------------|---------------|------------------------|-------------------|---------------|-------------------------|---------------------|
| Age at entry Duration of membership | | 34·95 5·67 | 7.98 | 6.53 | 34.96 9.22 | 35 · 23 | 32. |

It will be seen that the average age at entry in the Canada Life agrees more nearly with that given for the A. M. P. Society than with that in any of the others. But the average age at entry for the 71,542 healthy lives in the above society was 31 years, while the average true age at entry for the 38,757 rated up lives was 30.22 years. Thus it will be apparent the average true age at entry in the above society was less than in the Canada Life.

After making allowance for different characteristics as shown in the foregoing table, it will still be apparent from Table XVII. that the benefits of selection have been very marked in the present experience.

Table XVII. shows the ratios per cent. (by years of assurance) of the actual deaths in the Canada Life to the expected deaths by the other experiences mentioned. In the last three or four years of some of the experiences the rates are based on limited data, so that some unevenness is to be expected in the results for those years.

In the three previous tibles the ages are all combined, and the weight of observation at different ages at exposure is ignored. Hence, to form a more reliable comparison, the experience is divided in Table XVIII, according to ages at exposure, Part I giving the experience during the first five years and Part 2 the experience after five years. To obtain the exposures in groups for integral ages attained, two thirds of the exposures for the first age in the original group are thrown off, and one-third of the exposures for the first age (next birthday) in the next group are added on; and similarly for the deaths—thus reducing the experience from fractional to integral ages attained. For the experiences other than the Canada Life and the Connecticut Mutual the rates of mortality for the first five years are really based on only four and one-half years' experience, in accordance with the calendar year method. The comparisons in Tables XVIII, and XIX, are, therefore, in this respect in favor of the experiences based on calendar years.

From Table XVII. it will be seen that the experience of the A. M. P. Society approaches more nearly to that of the Canada Life than any of the others. During the first thirty years the total deaths in the Canada Life (all ages combined) are 97.6% of the expected deaths in the A. M. P. Society. In Table XVIII. it will be seen that for the first five years of assurance there is very little difference in the two experiences, even when taking the A. M. P. experience at the assumed ages, so that no real superiority for Australian lives is here shown. The Scottish Widows' Fund and Canada Life experiences during the first five years are practically identical, the actual and expected deaths being 630 and 684 respectively.

From the comparatively large number of exposures on recently selected lives it might be inferred that the favorable character of the present experience (as shown by the aggregate or mixed table of mortality in which assurances of all durations are combined) would not hold true when comparisons are made in which the first five years of assurance are excluded. The proportion of total exposures belonging to the first five years of assurance was 43% in the Canada Life and 48 in the Connecticut Mutual, while the proportion of total exposures belonging to the first 4½ calendar years was 55 in the Mutual Life, 49% in the A. M. P. experience, 41% in the Mutual Benefit, 39% in the H^m and 32 in the Scottish Widows' Fund. In the 30 American Offices the proportion was 65%.

Table XVIII., Part 2, shows that the actual deaths after five years' duration in the Canada Life are less than the expected deaths by the Mutual Benefit, Connecticut

Mutual, Mutual Life, Scottish Widows' Fund and H^m experiences, a fact which establishes the superior quality of assured lives in Canada.

There is a very marked regularity between the Mutual Benefit and Canada Life mortality after five years for each group of ages, the former being almost throughout slightly in excess of the latter, and on the whole nearly 5%, in excess; but it should be noted that the Mutual Benefit experience is of shorter duration than that of the Canada Life.

In the experience after five years it must be remembered that as between the Canada Life and A. M. P. experiences the longer durations of the risks in the former and the rating up of the lives in the latter are disturbing factors, both in favor of the A. M. P. Society. The practice of rating up the lives in the latter company (35%, of the lives being rated up) had the effect of making the mortality appear about 10% more favorable than if all the lives had been accepted at their true ages. Moreover, the large endowment assurance business had the effect of reducing the deaths by about 3%. When Table XVIII, is read in the light of these facts it cannot be said that the experience of assured lives in Australia is more favorable than in Canada.

An examination of the foregoing tables will show that the experience of the Canada Life Assurance Company has been quite as favorable as that of any of the other experiences examined, if not more so.

The Mortuary Statistics of Canada, as published in the Dominion Census of 1891, show a very low death rate when compared with similar statistics of other countries. Assuming the substantial accuracy of the Census, we have here evidence that confirms the experience of the Canada Life, that Canada is one of the healthiest countries in the world. With a lower rate of mortality and a higher rate of interest than prevails in most countries, a well managed Canadian company, therefore, possesses special advantages in its claims to public patronage.

Table XIX. gives the rates of mortality for the first five years, and after five years, for the experiences mentioned.

It is generally supposed that the benefits of selection are worn out by the end of the fifth year. To ascertain how far this is true in the present experience the rates of mortality, excluding the first five years of assurance, were compared with those excluding the first ten years of assurance, and it was found that after age 34 the rates for quinquennial groups of ages were practically the same in both.

As a further contribution to the study of the effects of selection, Table XX. is given in summary form only. Part I. shows the rates by quinquennial years of assurance and central ages at entry; age 20, for example, being the (approximate) centre for the five ages at entry 18 to 22, the exposures and deaths being reduced to integral ages before deducing the rates of mortality. The rapid rise in the rates of mortality as the life grows older and further away from the point of selection is strikingly shown in this table (Part I). For example, taking age 40 at entry, the rate for the first five years is only 5.08 per thousand. For the third five years (11 to 15) the rate is more than doubled, being 11 57 per thousand, while for the fifth five years (21 to 25) the rate is more than five times what it was the first five years, being 28.88 per thousand; and after 30 years' duration the original rate, 5.08, has increased to 62 77 per thousand, or more than twelve times the rate for the first five years.

To wilfully ignore these facts and to mislead innocent persons by disregarding their ultimate effects, is to commit a crime against society.

Part 2 of Table XX. shows the rates by quinquennial years of assurance and quinquennial groups of ages (next birthday) at exposure.

This table confirms the investigations of Messrs. Sprague, King and others, viz.: that shortly after entry the lives, on the average, seriously deteriorate, but afterwards show a marked improvement. Thus, examining the rates in the above-named table it will be seen that while there is a sudden rise in the rates for the second five years, an improvement is usually shown either in the third or fourth quinquennium.

The most natural explanation of this is that the large number of healthy lives withdrawing in the early years brings about a deterioration in the body of remaining lives, thus causing the higher resulting rate in the second five years, but after the effect of this has worn off an improvement takes place. It follows from this that if a company were to guarantee from the outset the full reserve each year as a surrender value, thus offering a temptation for healthy lives to withdraw, a serious injustice might result to the persistent members.

From the mortality table (iX), excluding the first five years of assurance, the commutation columns D_{τ} and N_{τ} have been calculated, using 4° as the rate of interest. From these the values of the life annuities, a_{τ} , are at once obtained. These values will be found in Table XXI.

Experience on Rated-up Lives.

As previously stated, all rated-up lives were carefully eliminated from the general experience. The rated-up cases were divided into two classes, viz.: permanent extras and temporary extras, the latter including cases where a loading or fine was imposed to cover some temporary or special risk. These latter have not been included in this investigation, but the experience of the permanently rated-up lives has been separately dealt with

Table XXII. gives the result of this investigation. The number of entrants dealt with was 754, of whom 89 died. The average loading was approximately 3½ years. The experience was first developed according to actual ages, and afterwards according to assumed ages, and the exposed and died then grouped by quinquennial ages at exposure. Comparison was then made with the expected number of deaths according to the company's general experience (original), and also with the H^m experience.

It was found that while the number of actual deaths at actual ages was 89, the expected number by the company's general experience was only 75, while the expected number by the H^m table was 106. On the other hand, while the number of deaths at assumed ages was, as before, 89, the expected number by the company's general experience was 86, and by the H^m table 120.

From this it follows that the management of the Company have practically succeeded in the difficult task of putting the rated-up lives on an equality with the "average" lives. It will be seen also that the actual number of deaths was well within the expected number by the H^m table, even at true ages.

The smallness of the data renders further investigation into this class of doubtful practical value.

On the Rate of Discontinuance.

When the present investigation was commenced the question of an enquiry into the rates of discontinuance was regarded as of secondary importance, but as the work progressed it was felt that the practical bearing of this question on the finance of life assurance, and the opportunity for its elucidation by means of the data now at hand, demanded that some attention should be given to this subject.

In obtaining the rates of mortality by years of assurance, we have seen that it is a necessary condition of the policy year method that the deaths should be allocated to the policy year in which death takes place.

If it were thought necessary to obtain with equal precision the rate of discontinuance, it would have been necessary to tabulate the discontinuances in a manner similar to the deaths, i. e., in the exact policy year of discontinuance. But in view of the fact that the rate of discontinuance is less regular than that of mortality, differing according to different companies, different plans of assurance and other circumstances, it was thought that for the present purpose, at least, the tabulation of the withdrawals, according to the nearest duration method, would give results sufficiently approximate for all practical purposes.

From the explanation given on page 10 it will be remembered that the with-drawals are made to pass from observation at the end of the policy year. In consequence of this the rate of discontinuance is determined as at the end of the year, and not in the year. The function tabulated, therefore, is not exactly the same as in some other experiences. In obtaining the exposed to risk of discontinuance the deaths have been deducted from the exposed to risk of death, thus giving the exposed to risk of discontinuance at the end of the year. For example: in "year of assurance 1" there were 34,046 exposed to risk of death (all ages combined) and 112 deaths. Subtracting these deaths, we get 33,934 exposed to risk of discontinuance, and it is found that 4,836 withdrew at the end of year 1. The percentage of discontinuance is, therefore, 14.25. This is, therefore, the proportion of lives that do not pass on to the second year. Similarly with succeeding years. These particulars will be found in Table XXIII.

The nearest duration method makes it difficult to deal satisfactorily with the first year of assurance, as there are a number who pass from observation at the end of the first and second quarters, the majority being at the end of six months.

In addition to the discontinuances at the end of year 1, we have therefore to deal also with these quarterly cases, which, as explained on page 10, are composed of all the withdrawals at the end of the first quarter and one-half of those at the end of the second quarter.

In the absence of any more approved method these have been placed under "year α " and the exposed taken as the total number of entrants.

In grouping any number of years of assurance together to obtain an average annual ratio of discontinuances, the exposures under year o have been divided by 2.

Table XXIII. gives the exposed and discontinued by years of assurance for all ages combined, and the per cent discontinued; also the expected discontinuances by the

experience of the Connecticut Mutual on premium-paying life policies. The discontinuances were treated similarly in these two experiences, except that the compulsory withdrawals (matured term and endowment assurances) were separately dealt with in the Canada Life investigation, but in the comparison in Table XXIII. the percentages for the Connecticut Mutual are those based on life policies, so that no matured term or endowment assurances enter into the question. An examination of this table will show that the discontinuances are considerably lower in the Canada Life than on the above mentioned section of the Connecticut Mutual experience.

To form some relative idea of the rates of discontinuance in other experiences Table XXIV. is given, showing the rates by the Mutual Life, Australian Mutual Provident, 30 American Offices, H^m Table and 23 German Offices, the rates for the last two being extracted from Mr. McClintock's essay, "On the Effects of Selection," except that for year o in the H^m, the annual rate 2.7 has been supplied from other sources.

The function tabulated in this table is not quite the same as in Table XXIII. Moreover, the rate tabulated by the Mutual Life of New York is based on the exposed to risk of death, while in the others one-half the deaths are properly deducted from the exposed to risk of death before deducing the rate. But the actual change in the rates by reason of these differences is probably too small to invalidate any general conclusions drawn from a comparison of the figures in these two tables.

The comparatively large number of discontinuances in and at the end of the first year in the Canada Life Assurance Company seems to a considerable extent due to the practice of writing policies quarterly and half-yearly when requested. Besides, the period of severe competition for new business is included in the present experience and this will have considerable weight on the first year's withdrawals.

After year 2 the experience follows very closely that of the H^m table. In the early years of assurance of the A. M. P. Society the rate of discontinuance is favorably influenced by the non-forfeiture conditions of that company's policies, but after the eighth year the Canada Life shows a considerably lower percentage of discontinuances. Allowance has to be made, however, for the effect of matured endowment assurances in the later years of assurance in the case of the A. M. P. Society.

From years 2 to 8, inclusive, the discontinuance experiences of the Canada Life and Mutual Life are very similar, but from year 9 onwards the proportion is considerably less in the case of the Canada Life; while throughout the first fifteen years

it is much more favourable than that of the 30 American Offices. On the whole, therefore, it may be said that the Canada Life Assurance Co. shows a very favourable experience as regards discontinuances.

It is sometimes maintained that the rate of discontinuance is sufficiently regular in different companies to give effect to its influence in calculating premium rates. While it is not impossible to take into account the discontinuance rate as well as the death rate in calculating premiums, yet in view of the varied circumstances that go to influence the withdrawals, it would be necessary to use such a conservative estimate for future discontinuances that it is very doubtful if the consequent reduction in premiums would compensate the assured for the loss of privileges enjoyed under the present system.

In view of the many fallacious arguments used in Canada and the United States as to the rate of discontinuance and the effect thereof, it may be well to emphasize the fact that out of 12,891 discontinuances in 46 years of the Canada Life experience 6,077 withdrew within one year (or at most within one year and a half) from entry.

Now, when the cost of procuring these assurances is considered—the medical fee, the agent's commission, issue of policy, and the proportionate amount of other general expenses, together with the cost of carrying the risk—it cannot truthfully be said that a company makes large gains from these lapses.

Omitting, therefore, the lapses of "year 1," it will be found that the average percentage of discontinuances per year after year 1 is only 2.62, after year 2 it is only 2.17, after year 3 it is 1.87, after year five it is only 1.48, and after this it continues to decrease to 0. When to these facts we add that an equitable, if not liberal cash surrender value, is allowed when a policy has been a few years in force, it will be seen that the frequently made assertion as to immense sums of money being made from lapses is not well founded. Indeed, it is doubtful if the surrender charge much more than compensates an office for the loss of lives which as a rule are healthy and whose loss produces a deterioration on the body of remaining lives. In this connection it is only necessary to refer to Table XX., Part 2, and to the remarks thereon on 1 age 25.

The rate of discontinuance depends not only on the period since entry, but also upon the age at entry. This is made manifest by Table XXV., in which the experience is arranged according to quinquennial ages at entry and quinquennial periods of assurance. From this table it will be seen that the percentage of discontinuances decreases not only with the duration of the assurance, but also with the increase of

age at entry. In this table the discontinuances of "year o" are included in those of the first five years, the exposed for "year o" in each group being taken as one-half the number of entrants. A summary of the above-mentioned table is here given:

| Ages at Entry. | Per cent. Discontinued. (Whole Duration.) | Duration. | Per cent. Discontinued. (All Ages over 19 Combined.) |
|--|--|-------------|--|
| 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60 and over. | 4.88 4.34 4.16 3.86 3.61 3.34 3.39 3.23 3.75 | 1st 5 years | 7.21 2.15 1.19 .80 .68 .50 |
| Average | 4.14 | | 4.14 |

The experiences of the Mutual Life of New York and the Australian Mutual Provident Society are also given for convenience in Table XXVI., in groups of quinquennial ages and durations, similar to those in Table XXV. As previously indicated, the function tabulated for these two companies is not quite the same as in the case of the Canada Life; but what is more important, the matured endowment assurances are included under the head of discontinuances. As the tables stand the proportion of discontinuances is considerably less in the Canada Life than in either of the other two companies, especially in the 3rd, 4th and 5th quinquenniums. The higher rates in the case of the Australian Mutual Provident experience for the later years of assurance are partly accounted for by the matured endowment assurances; but it is impossible to measure the exact effect of these on the rates of discontinuance. In the Mutual Life experience no term risks had for many years been taken, and very few endowments had matured prior to the close of the observations in 1873, so that the comparison is here more analogous. Moreover, the period of keen competition for new business, and of wide expansion, had not commenced when the Mutual Life experience was taken out. Acting under conditions, therefore, somewhat similar, it appears that the discontinuances in the Canada Life, after the first five years of assurance have been less than in the case of the Mutual Life experience

The importance of separating the compulsory from the voluntary withdrawals in any investigation into the rates of discontinuance has been made manifest, and uncertain if not erroneous results will be brought out where this is not done.

The Diagrams.

The diagrams appended to this report give a graphic illustration of some of the tables already referred to. The first four diagrams are based on Table XIII., and exhibit the relation between the actual deaths in the Canada Life and the expected deaths by the experiences of the Institute of Actuaries (II^m), the American Table, the 30 American Offices, and the Mutual Life of New York, respectively.

Diagrams five to seven illustrate Table XVIII., Part 2, the actual deaths in the experience after five years compared with the corresponding expected deaths by the H^m, Scottish Widows' Fund and Mutual Life Experiences.

Diagram eight, which is based on Table XII., brings into clear view the divergence between the graduated mortality tables of the Institute of Actuaries (H^m), the American Experience, the 30 American Offices, the Mutual Life and Mutual Benefit on the one hand, and the graduated table of the Canada Life on the other.

Conclusion.

In concluding this introduction to the succeeding tables the following considerations suggest themselves:

- 1. From an examination of the comparative tables already referred to, it appears that the quality of assured male lives in Canada, as evidenced by the Canada Lite experience, is not surpassed by that in the United States, Great Britain, Germany or Australia.
- 2. None of the various individual companies examined and referred to herein show a more favourable mortality experience than the Canada Life Assurance Company.
- 3. This favourable experience is not confined alone to the early years of assurance, but is maintained when the first five years of assurance are excluded. Indeed, the low rates both of mortality and discontinuance in the period after five years' duration are noticeable characteristics of the present experience.
- 4. As a consequence of these facts, and of the higher interest rates obtainable in Canada than in most countries, it follows that a well managed Canadian life assurance company possesses special advantages for assurers.
- 5. Although the rates of mortality at various insuring ages as shown by the Canada Life experience is more favorable than that looked for by the Government

standard, the great caution exercised by the Company in the acceptance of lives and the care manifested in the selection of risks by responsible local agents and medical examiners (a large proportion of whom have acted for the Company for many years and have thus become interested in its permanent welfare), have no doubt largely contributed to the favourable mortality experienced, so that it should not be too hastily assumed that companies and associations in Canada acting under somewhat different conditions would show as favourable a mortality experience as the Canada Life.

- 6. Moreover, the world-wide decline in the rate of interest in recent years, and the important effect of this on the finance of life assurance, renders it incumbent that the present Government standard should be looked at with both functions (mortality and interest) in view, before any change is adopted.
- 7. In addition to the publication of the usual aggregate mortality experience, it is hoped the present investigation into the questions of selection and discontinuance, and the publication for proper uses of the complete original facts connected therewith, will do something to advance the interests of actuarial science.

TABLE 1. Continued.

AGE AT ENTRY IQ (Next Birthday.) AGE AT ENTRY 20 (Next Birthday.)

| Year | + | NUME | BER O | F ENT | RANTS | 5 227- | Vears | | NUME | ER OF | ENT | RANTS | 5 504 |
|---------|-----------|---------------|----------------|-------|--------|------------------------------|------------|----------|--------------|-----------------|-------|--------|-------------------------------|
| As arab | Existing. | Ma- tured. | With- drawn | Died. | Total. | Exposed to Risk of Death. | Vistinance | Existing | Ma- tured | With- drawn. | Died. | Fotal. | I sposed to Risk of Death. |
| | | | 1 1 | | II | | | | | 23 | | 23 | |
| I | 2.5 | | 27 | I | 53 | 210 | I | .‡ I | | 8 t | 2 | 1.2.4 | 481 |
| 2 | 1 7 | | 3 | 2 | 2.2 | 163 | 2 | 37 | | II | | 48 | 357 |
| 3 | 18 | | 7 | ī | 26 | 1 1 1 | 3 | 36 | | 9 | 1 | 46 | 309 |
| 4 | 25 | | | 1 | 26 | 115 | 4 | 4.4 | | 1 I | 1 | 56 | 263 |
| 5 6 | 1.4 | | 1 | | 15 | 89 | 5 6 | 25 | | 6 | | 31 | 207 |
| | ΙO | | 3 | | 13 | 7.4 | | 24 | | 3 | | 27 | 176 |
| 7 8 | 3 | | 4 | | 7 | 61 | 7 | 2.2 | | 4 | 1 | 27 | 149 |
| 8 | 1.5 | | | | 15 | 5-4 | 8 | 2.1 | | 2 | 2 | 25 | 1 2 2 |
| 9 | 6 | | | | 6 | 39 | 9 | 6 | | 3 | 1 | 10 | 97 |
| IO | I | | I | | 2 | 3.3 | 10 | 7 | | I | | S | Ś7 |
| II | 1 | | ī | ī | 3 | 31 | II | 4 | | I | | 5 | 79 |
| 12 | -4 | | | | 4 | 28 | 12 | Ś | | | | š | 74 |
| 13 | | | | | | 2.4 | 13 | S | | î | 1 | 10 | 66 |
| 14 | 1 | | | 2 | 3 | 2.4 | 14 | 3 | | | | 3 | 56 |
| 15 | ı | | | | ī | 21 | 15 | 2 | | 1 | I | 4 | 53 |
| 16 | | | | | | 20 | ıŏ | ι | | ī | | 2 | 49 |
| 17 | | | | | | 20 | 17 | 2 | | | | 2 | 47 |
| 18 | | | | | | 20 | 18 | 1 | | I | I | 3 | 45 |
| 19 | | | I | | I | 20 | 19 | 3 | | | | 3 | 42 |
| 2Ó | 1 | | ī | | 2 | 19 | 20 | | | | 1 | | 39 |
| 21 | | | | | | 17 | 21 | | | | | • | 38 |
| 22 | 2 | | | | 2 | 17 | 22 | ı | | | 1 | 2 | 38 |
| 23 | 3 | | | | 3 | 15 | 23 | 5 | | | | | 36 |
| 21 | 1 | | | | 3 1 | 12 | 24 | | | | | 5 | |
| 25 | 1 | | | | 1 | 11 | 25 | 4 | | | | 4 | 31 |
| 26 | 1 | | 1 | | 2 | 10 | 26 | 5 2 | , | | | 5 | 27 |
| 27 | 1 | | • | | 1 | 8 | 27 | | | | I | 3 | 2.2 |
| 28 | 1 | | • | | | | 28 | 3 | | | • • | 3 | 19 |
| 29 | , | | | | 1 | 7. | | 2 | | | | 2 | 16 |
| | | | | | ī | 6 | 29 | | | | | | 1.4 |
| 30 | 1 | | | | ī | 5 | 30 | | | | | | 1.4 |
| 31 | • • | | | | | 4 | 31 | 3 | | | 1 | 4 | 1 1 |
| 32 | | 1 | • • | 1 | | 4 | 32 | • • | | | | | 0.1 |
| 33 | 1 | | • • | | 1 | 4 | 33 | 1 | , , | | | 1 | 10 |
| 34 | | | | | | 3 | 34 | 1 | | | | 1 | 9 |
| 35 | Ī | | 1 | | 2 | 3 | 35 | | | | ī | I | 8 |
| 36 | | | | | | 1 | 36 | I | | | | I | 7 |
| 37 | | | | | , | I | 37 | I | | | 1 | 2 | () |
| 38 | | | | | | 1 | 38 | I | | | | 1 | -1 |
| 39 | | | | | | ī | 39 | | | | | | 3 |
| 40 | | | | | | 1 | 40 | I | | | | Ī | 3 |
| 41 | | | | | | I | 41 | | | | | | 2 |
| 42 | | | | | | 1 | 42 | | | | | | 2 |
| 43 | I | | | | 1 | ī | 42 43 | Ī | | | | 1 | 2 |
| | | | | | | | 1 44 | | | | | | 1 |
| | | | | | | | 45 | 1 | | | | 1 | I |
| | 157 | 0 | 62 | 8 | 227 | 1346 | | 328 | 0 | 159 | 17 | 504 | 3135 |

TABLE I.—Continued.

AGE AT ENTRY 21 (Next Birthday.)

AGE AT ENTRY 22 (Next Birthday.)

| Years of | N | UMB | ER OF | ENT | RANTS | 1503 | Years of | N | IUMB | ER OF | ENT | RANTS | 1508. |
|-------------|-----------|---------------|-----------------|-------|--------|------------------------------|-------------|-----------|---------------|-----------------|-------|--------|-----------------------------|
| Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death |
| | | | 47 | | 47 | | | | | 68 | | 68 | |
| I | 80 | 1 | 220 | 3 | 304 | 1456 | ı | 86 | 1 | 240 | 6 | 332 | 1440 |
| 2 | 52 | | 57 | 11 | 120 | 1152 | 2 | 53 | | 81 | 6 | 140 | 1108 |
| 3 | 58 | | 57 | 7 | 122 | 1032 | 3 | 66 | | 45 | 8 | 119 | 968 |
| | 110 | 1 | 36 | | 150 | 910 | 4 | 7.5 | | - | 6 | 115 | 849 |
| 4 5 6 | | · I | 36 | 3 | 92 | 760 | 4 | 46 | | 34 30 | 8 | 84 | 734 |
| 5 | 47 61 | | | | 87 | 668 | 5 6 | | | | 1 | 60 | 650 |
| | | | 19 | 7 | | 581 | | 42 | | 17 | | 81 | |
| 7 | 42 | | 15 | 6 | 63 | | 7 8 | 61 | | 18 | 2 | | 590 |
| | 43 | | 12 | 4 | 59 | 518 | | 47 | | 11 | 5 | 63 | 509 |
| 9 | 43 | ; | 8 | 3 | 54 | 459 | 9 | 37 | | 7 | 3 | 47 | 446 |
| 10 | 54 | | 7 | 3 | 64 | 405 | 10 | 33 | | 8 | 1 | 42 | 399 |
| II | 41 | | 2 | 6 | 49 | 341 | II | 31 | | 3 | 2 | 36 | 357 |
| 12 | 28 | | 3 | | 31 | 292 | 12 | 33 | | 5 | 3 | 41 | 321 |
| 13 | 23 | | 1 | 2 | 26 | 261 | 13 | 28 | | 4 | 2 | 34 | 280 |
| 14 | 25 | | 2 | 1 | 28 | 235 | 14 | 28 | | 4 | I | 33 | 246 |
| 15 | 30 | · - | | | 30 | 207 | 15 | 28 | | 2 | 1 | 31 | 213 |
| 16 | 19 | | 1 | 3 | 23 | 177 | 16 | 1.4 | | 2 | | 16 | 182 |
| 17 | 22 | | | 1 | 23 | 154 | 17 | 18 | | | 3 | 2 I | 166 |
| 18 | 18 | | I | 3 | 22 | 131 | 18 | 19 | | 1 | 2 | 22 | 1.45 |
| IQ | 16 | 1 | 2 | | 19 | 100 | 19 | 12 | | I | 3 | 16 | 123 |
| 20 | 16 | | | 1 | 17 | 95 | 20 | 9 | | | I | 10 | 107 |
| 21 | 20 | | | | 20 | 7.3 | 21 | 22 | | | | 22 | 97 |
| 22 | 16 | | I | | 17 | 53 | 22 | 16 | | ı | | 17 | 7.5 |
| 23 | 14 | | | | 14 | 36 | 23 | 18 | | | | 18 | 58 |
| 24 | 5 | | 1 | | 6 | 22 | 24 | 11 | | | | II | 40 |
| 25 | | | | | | 16 | 25 | 6 | | | 1 | 7 | 29 |
| 26 | 1 | | | | 1 | 16 | 26 | 2 | | | ī | 3 | 22 |
| 27 | 1 | | | 2 | | 15 | 27 | ı | | | | 1 | 19 |
| 28 | | | , . | 1 1 | 3 | 12 | 28 | 2 | | | ī | | 18 |
| | 2 | | | • • • | 2 | 12 | _ | | | • • | , ' | 3 | |
| 29 | | | | | | | 29 | I | | | | 2 | 15 |
| 30 | | I | | | 1 | 10 | 30 | I | | |] | 1 | 14 |
| 31 | | | | | | 9 | 31 | 3 | | ٠. | | 3 | 1 |
| 32 | 2 | | | | 2 | 9 | 32 | 2 | | | | 2 | 9 |
| 33 | 2 | | ī | | 3 | 7 | 33 | 2 | | | | 2 | 7 |
| 34 | | | | | | 4 | 34 | 2 | | , | | 2 | 5 |
| 35 | I | | | | I | 4 | 35 | | | | | | 3 |
| 36 | | | | | | 3 | 36 | | | | | | 3 |
| 37 | 1 | | | | 1 | 3 | 37 | | | | | . , | 3 |
| 38 | . , | | | | | 2 | 38 | | | | 1 | I | 3 |
| 39 | 1 | | | | I | 2 | 39 | | | | | | 2 |
| 40 | 1 | | | | I | 1 | 40 | | | | | | 2 |
| | | } | | | | | 41 | | | | | | 2 |
| | |] | | | | | 42 | 1 | | | | | 2 |
| | | | | | | | 43 | | | | | | 2 |
| | | | | | | | 44 | 1 | | 1 | | 2 | 2 |
| | 895 | 4 | 529 | 75 | 1503 | 10247 | | 856 | 0 | 583 | 69 | 1508 | 10277 |

TABLE 1.

| l e ti | | NUM | BER C | F EN | TRANT | S 5 | Year | | иии | BER C | F EN | TRANT | S 14 |
|--|----------|---------------|----------------|------|--------|------------------------------|------------|---------|-----|---------------|------|-------|--------|
| t um e | Existing | Ma- tured. | With- drawn | Ined | Lotal. | Exp. (a.t.) Risk of Death | A constant | Landing | M . | War . Laka | Die. | 1 %. | 1. 11. |
| | | | | | | | | _ | | | | | |
| r | | | | | | 5 | ı | 2 | | 2 | | 1 | 1.1 |
| 2 | | | | | | 5 | 2 | 2 | | 1 | | 3 | 10 |
| 3 | | | 2 | | 2 | 5 | 3 | | | 1 | | 1 | 7 |
| 4 | | | I | | 1 | 3 | 4 | | | | | | 6 |
| 5 | | | | | | 2 | 5 | | | | | | () |
| Ó | | | | | | 2 | 5 6 | 1 | | | | 1 | fj |
| 7 8 | | | | | | 2 | 7 8 | | | 1 | | 1 | 5 |
| | | | | | | 2 | | | | | | | 4 |
| 9 | | | | | | 2 | 9 | | | | | | 4 |
| IO | | | | | | 2 | 10 | | | | | | 4 |
| II | | | | | | 2 | 11 | | | | | | 4 |
| 12 | | | | | | 2 | 12 | | | | | | ‡ |
| 13 | | | | | | 2 | 13 | | | | | | 1 |
| 14 | | | | | | 2 | 14 | | | | | | + |
| 15 | | | | | | 2 | 15 | | | | | | 4 |
| 16 | | | | | | 2 | 16 | | | | | | _1 |
| 17 | | | | | | 2 | 17 | | | | | | -1 |
| 18 | | | | | | 2 | 18 | • • | | | | | -1 |
| 19 | | | | | | 2 | 19 | • • | | | 1 | 1 | ÷ |
| 20 21 | | | | | | 2 | 20 21 | | | | | | 3 |
| 22 | | | | | • • | 2 | 22 | | | | | | |
| 23 | | | | | | 2 | 23 | | | | | 1 | 3 |
| 24 24 | | | | | | 2 | 24 | | | | | 1 | 2 |
| 25 | | | | | | 2 | 25 | 1 | | | | 1 | 1 |
| 26 | | | | | | 2 | -3 | | | | | | |
| 27 | | | | | | 2 | | | | | | | |
| 28 | | | | | | 2 | | | | | | | |
| 29 | | | | | | 2 | | | | | | | |
| 3ó | | | 1 | | t | 2 | | | | | | | |
| 31 | | | | | | 1 | | | | | | | |
| 32 | | | | | | 1 | | | | | | | |
| 33 | | | | | | 1 | i | | | | | | |
| 34 | | | | | | ι | | | | | | | |
| 35 | | | | | | 1 | | | | | | | |
| 36 | | | | | | 1 | | | | | | | |
| 37 | | | | | | 1 | | | | | | | |
| 38 | | | | | | 1 | 1 | | | | | | |
| 39 | | | | | | I . | | | | | | | |
| 40 | | | | | | 1 | | | | | | | |
| 41 | | | | | | 1 | | | | | | | |
| 37 38 39 40 41 42 43 | | | | | | ľ | | | | | | | |
| 43 | ī | | | | 1 | 1 | | | | | | | |
| | I | 0 | 4 | 0 | 5 | 83 | I | 8 | 0 | 5 | I | 1.1 | 117 |

TABLE I.—Continued.

AGE AT ENTRY 17 (Next Eirthday)

AGE AT ENTRY 18 (Next Birthday.)

| Years | | NUME | BER O | F ENT | RANT | 3 7. | Years | 1 | NUME | BER OF | ENT | RANTS | 5 92 |
|-----------------|-----------|--------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured | With- drawn. | Died | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death, |
| | | | | | | | | | | 2 | | 2 | |
| 1 | 7 | | 4 | | I I | 37 | 1 | 9 | | 11 | | 20 | 90 |
| 2 | 1 | | j | ! | 2 | 26 | 2 | 9 | | 4 | 1 | 13 | 70 |
| 3 | 5 | 1 | 2 | | 7 | 24 | 3 | 3 | | 3 | I | 7 | 57 |
| 4 | 2 | | 1 | | 3 | 17 | 4 | 10 | | | | 01 | 50 |
| 7 | I | | ī | | 2 | 1.4 | 5 | 4 | | | , . | 4 | 40 |
| 5 | ī | | , . | | ĭ | 12 | 5 6 | | | I | | I | 36 |
| | 3 | | | | 3 | I I | 7 | 4 | | | | 4 | 35 |
| 7 8 | 3 | | | | | 8 | 8 | 3 | | | | 3 | 31 |
| 9 | | | | | | 8 | 9 | 1 | | | | ī | 28 |
| 10 | | | | | | 8 | 10 | | | I | | I | 27 |
| 11 | | | | | | 8 | 11 | I | | | | I | 26 |
| 12 | | | | | | 8 | 12 | I | | I | | 2 | 25 |
| 13 | | | | | | 8 | 13 | 1 | | | | | 23 |
| | | | | | | 8 | 14 | | | | | | 23 |
| 14 | | | | | | 8 | 15 | , , | | | | | 23 |
| 15 16 | | | | | | 8 | 16 | | | | ı | 1 | 23 |
| | | | | | ī | 8 | 17 | | | | I | 1 | 22 |
| 17 18 | | | 1 | | | 7 | 18 | 1 | | | ı | 2 | 2 I |
| | | | | | | 6 | 19 | 1 | | | | | 19 |
| 19 | | | | | | 6 | 20 | | | | | | 19 |
| 20 | | | | | | 6 | 21 | | | 1 | | ī | 19 |
| 21 | | | | | | 6 | 22 | | | | | | 18 |
| 22 | | | | | | 6 | 23 | 2 | | | | 2 | 18 |
| 23 | 1.1 | | | | | 6 | 24 | | | | | 4 | 16 |
| 24 | 2 | | | | 2 | | | 4 | . , | | 1 | ī | 12 |
| 25 | | | | | | 4 | 25 26 | · · · | , . | ı | ı | 3 | 11 |
| 26 | I | | | | I | 4 | | I | | 1 | | | 8 |
| 27 | 1 | 1 | | | I | 3 | 27 28 | I | | | | ī | 7 |
| 28 | | | | | | 2 | | I | | | 1 | ī | 6 |
| 29 | | | | | | 2 | 29 | | | | | Į. | 1 |
| 30 | | | * * * | | | 2 | 30 | | | | | | 5 |
| 31 | | | | | | 2 | 31 | | | | | | 5 |
| 32 | | | | | | 2 | 32 | | | | 1 | | 5 |
| 33 | | | | | | 2 | 33 | | | | , , | | 5 |
| 34 | | | | | | 2 | 34 | | | | | | 5 |
| 35 | | | | | | 2 | 35 | | | | | | 5 |
| 36 | | . , | | | | 2 | 36 | 1 | | | | r | 5 |
| 37 | | | | | | 2 | 37 | 1 | 1 | · . | | I | 4 |
| 38 | | - | | | | 2 | 38 | I | | 1 | | 2 | 3 |
| 39 | | 1 | | | , . | 2 | 39 | | | | | | 1 |
| 40 | | | | | | 2 | 40 | | | | | 1 | ! |
| 41 42 | | | | 1 | I | 2 | 41 42 | | | 1.1 | | , . | 1 |
| 42 | | | 1 | | | 1 | 42 | I | | | | I | I |
| 43 | | | | | | I | 1 | | | | | | |
| 44 | | | | | | 1 | | | ĺ | | | | |
| 44 45 | 1 | | | 1 | I | 1 | | | | | | | |
| | 25 | 0 | 10 | 2 | 37 | 307 | | 60 | o | 26 | 6 | 92 | 849 |

TABLE I. Continued.

AGE AT ENTRY 23 (Next Birthday.)

AGE AT ENTRY 24 (Next Firthday.)

| Vegrs | ١ | NUMB | ER OF | ENT | RANTS | 1708 | Vears | L | UMB | ER OF | ENT | RANTS | 1725. |
|---------------|-----------|---------------|-----------------|------|--------|------------------------------|-----------|-----------|--------------|-----------------|-------|--------|--------------|
| of surance | Existing. | Ma- tured. | With- drawn. | Pied | Total. | Exposed to Risk of Death. | Assurance | Existing. | Ma- tured | With- diawn. | Died. | Total. | Rub of Death |
| | | | 7.2 | | 7.2 | | | | | 66 | | 66 | |
| I | 95 | | 253 | 4 | 352 | 1636 | I | 7.3 | | 263 | 6 | 3.42 | 1659 |
| 2 | 60 | | So | 8 | 148 | 128.4 | 2 | 65 | | 106 | 10 | 181 | 1317 |
| 3 | 63 | | 53 | 5 | 121 | 1136 | 3 | 56 | | 61 | 5 | 122 | 1136 |
| 4 | 80 | | 44 | 5 | 129 | 1015 | 4 | 79 | | 26 | 3 | 108 | 1014 |
| Š | 62 | | 39 | 2 | 103 | 886 | 5 | 47 | 1 | 36 | 6 | 89 | 906 |
| 5 | 4.2 | | 21 | 4 | 67 | 783 | 6 | 51 | | 1.2 | 5 | 68 | Š17 |
| | 5.2 | | 20 | 5 | 7.7 | 716 | 7 | 56 | | 1.0 | Š | 83 | 749 |
| 7 8 | 46 | | 1.1 | 8 | 65 | 639 | 8 | 3.4 | | 16 | 1 | 51 | 666 |
| 9 | 43 | | 1.1 | | 58 | 574 | 9 | 44 | | 13 | 4 | 61 | 615 |
| 10 | 43 | τ | 8 | 4 | 50 | 516 | 10 | 43 | | 9 | 4 | 56 | 554 |
| II | | | 9 | 1 | | 460 | 11 | | | 6 | | | 498 |
| 12 | 44 | | | | 5-4 | 406 | 12 | 42 46 | | | 3 | 51 | |
| | 39 | | 9 8 | 5 | 53 | | | | | 3 6 | 3 | 5 2 | 447 |
| 13 | 35 | | | 4 | 47 | 353 | 13 | 41 | | | 3 | 50 | 3 / 5 |
| 14 | 31 | | 4 | 4 | 39 | 306 | 14 | 29 | | 4 | | 35 | 345 |
| 15 | 35 | | 3 | 1 | 39 | 267 | 15 | 30 | | 2 | 1 | 33 | 310 |
| 16 | 19 | | | 3 | 2.2 | 228 | 16 | 15 | | 3 | 5 | 2.3 | 277 |
| 17 | 19 | | | 2 | 2 1 | 206 | 17 | 2 1 | 1 | 2 | 3 | 26 | 251 |
| 18 | 10 | | 3 | 3 | 25 | 185 | 18 | 2.2 | | | 2 | 2.1 | 228 |
| 19 | 24 | | 1 | I | 26 | 160 | 19 | 3.4 | | 2 | 2 | 38 | 204 |
| 20 | 1.2 | | 2 | 1 | 15 | 131 | 20 | 30 | | | 3 | 33 | 166 |
| 21 | 15 | | | | 16 | 119 | 21 | 23 | | 1 | 3 | 27 | 133 |
| 22 | 27 | | | | 27 | 103 | 22 | 1.5 | | i | 1 | 20 | 106 |
| 23 | 1.2 | | | 2 | 1.4 | 76 | 23 | 13 | | | | 1.3 | 86 |
| 24 | 8 | | 1 | | () | 62 | 24 | -‡ | | | | 4 | 7.3 |
| 25 | 10 | | I | 2 | 1.3 | 53 | 25 | 7 | | | | 7 | 60 |
| 26 | 3 | | | 2 | 5 | 40 | 26 | 9 | 1 | | I | 1.1 | 0.2 |
| 27 | 4 | | | | 1 | 3.5 | 27 | 9 | | | | 9 | |
| 28 | 1 | | 1 | | 2 | 31 | 28 | -1 | | | | -1 | 42 |
| 29 | 4 | | | | 4 | 0 29 | 29 | 2 | | | 1 | 3 | 35 |
| 30 | I | | | | 1 | 25 | 30 | 3 | | | 2 | 5 | 3.5 |
| 31 | 4 | | | 1 | 5 | 2.4 | 31 | 3 | | | | .3 | 30 |
| 32 | 1 | | | | 1 | to | 32 | Ť | | | | 1 | 2.7 |
| 33 | 2 | | | | 2 | 18 | 33 | 2 | | | | 2 | 20 |
| 34 | 2 | | | | 2 | 1.0 | 34 | 2 | | | T | .3 | 2.4 |
| 35 | | | | | | 1.4 | 35 | 2 | | | | 2 | 2.1 |
| 35 | 3 | | | | 3 | 1.4 | 36 | -1 | | | | -1 | 140 |
| 37 | , | | | | | 1.1 | 37 | 1 | | 1 | | 1 | 1.5 |
| 38 | .3 | | | | 3 | 1.1 | 38 | ī | | | | I | 1.1 |
| 39 | * * | | | | | 8 | 39 | 1 | | | | 1 | 1.3 |
| 40 | .3 | | | | 3 | S | 40 | • | | | | | 12 |
| 41 | 1 | | | 1 | 2 | 5 | 41 | 2 | | | | 2 | 1.2 |
| 42 | | | | - | - | 5 3 | 42 | 3 | | | .2 | = | 1. |
| 43 | 1 | | | | 1 | .3 | 43 | 2 | | | - | 2 | |
| 44 | | | | | | 2 | 44 | - | | | | - | |
| 45 | 2 | | | | 2 | 2 | 45 | .3 | | | | 3 | 3 |
| | 970 | I | 654 | 83 | 1708 | 12621 | | 973 | I . | 658 | 93 | 1725 | 13486 |

TABLE I.—Continued.

AGE AT ENTRY 25 (Next Birthday.)

AGE AT ENTRY 26 (Next Birthday.)

| Years | L | NUMB | ER OF | ENT | RANTS | 1765 | Years | N | IUMB | ER OF | ENT | RANTS | 1730. |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 67 | | 67 | | | | | 55 | | 55 | |
| I | 78 | | 278 | 6 | 362 | 1698 | ı | 78 | | 281 | 6 | 365 | 1675 |
| 2 | 54 | | 88 | 9 | 151 | 1336 | 2 | 41 | I | 99 | 6 | 147 | 1310 |
| 3 | 54 | [| 5 2 | 6 | 112 | 1185 | 3 | 46 | I | 66 | 8 | I 2 I | 1163 |
| 4 | 8.4 | [| 36 | 2 | 122 | 1073 | 4 | 80 | 1 | 31 | 8 | 119 | 1042 |
| 5 | 56 | | 29 | 6 | 91 | 951 | 5 6 | 56 | | 38 | | 94 | 923 |
| | 42 | | 30 | 3 | 75 | 860 | | 47 | | 25 | 1 | 73 | 829 |
| 7 | 35 | | 18 | 6 | 59 | 785 | 7 8 | 39 | | 12 | 6 | 57 | 756 |
| 8 | 51 | | 13 | 4 | 68 | 726 | | 36 | ' | 11 | 2 | 49 | 699 |
| 9 | 54 | | 9 | 3 | 66 | 658 | 9 | 5.5 | | 12 | 8 | 7.5 | 650 |
| 10 | 44 | | ΙI | 6 | 61 | 592 | 10 | 57 | | 12 | 2 | 71 | 575 |
| II | 44 | | 7 | 2 | 53 | 531 | II | 34 | | 6 | 3 | 43 | 504 |
| 12 | 54 | | 5 | 2 | 61 | 478 | 12 | 53 | | 9 | 6 | 68 | 461 |
| 13 | 51 | | 6 | 3 | 60 | 417 | 13 | 46 | ٠. | 3 | 4 | 53 | 393 |
| 14 | 31 | | 3 | I | 3.5 | 357 | 14 | 26 | | 3 | 2 | 31 | 340 |
| 15 | 27 | | 4 | I | 32 | 322 | 15 | 2 I | | -4 | 3 | 28 | 309 |
| 16 | 27 | | | 4 | 31 | 290 | 16 | 23 | | 1 | I | 25 | 281 |
| 17 | 25 | | 2 | 2 | 29 | 259 | 17 | 23 | | 3 | | 26 | 256 |
| 18 | 2 2 | | I | 1 | 2.4 | 230 | 18 | 2 7 | | 3 | 3 | 33 | 230 |
| 19 | 20 | | 2 | I | 23 | 206 | 19 | 28 | | 6 | 2 | 36 | 197 |
| 20 | 18 | į · · | | 1 | 19 | 183 | 20 | 2 2 | | 1 | 2 | 25 | 161 |
| 21 | 29 | | I | I | 31 | 164 | 21 | 20 | | 3 | 3 | 26 | 136 |
| 22 | 26 | | 2 |] | 28 | 133 | 22 | 15 | | | 3 | 18 | 110 |
| 23 | 19 | | 2 | I | 22 | 105 | 23 | 25 | | 2 | | 27 | 92 |
| 24 | 9 | | | I | 10 | 83 | 24 | 7 | | | 1 | 8 | 65 |
| 25 | 13 | I | I | 2 | 17 | 7.3 | 25 | 4 | | I | I | 6 8 | 57 |
| 26 | 4 | | 2 | | 6 | 56 | 26 | 7 | | 1 ': | I | | 51 |
| 27 | 4 | | | | 4 | 50 | 27 28 | 2 | | I | | 3 8 | 43 |
| 28 | 4 | | I | I | 6 | 46 | | 8 | | | | III | 40 |
| 29 | 6 | | | I I | 7 | 40 | 29 | 3 | | 1 | 2 | 5 2 | 32 27 |
| 30 | 2 | | I | 2 | 5 | 33 | 30 | I | | | 1 | 11 | 25 |
| 31 | 3 | 1 | I | | 4 | 28 | 31 | 2 | • • | | 3 | 5 2 | 25 |
| 32 | 3 | | | 1 | 3 6 | 24 | 32 | 2 | | | | ll . | 18 |
| 33 | 6 | | | | 1 | 21 | 33 | 3 | | I | 2 | 4 | 14 |
| 34 | | | I | ' | I | 15 | 34 | 1 | | 1 | | 4 | 10 |
| 35 | I | | | 1 | I | 1.4 | 35 36 | . · · | | | | 1 | 10 |
| 36 | I | | | | I | 13 | | 2 | | | | 2 | 9 |
| 37 | I | | | 1 | 1 | I 2 | 37 38 | | • • | | 1 | 1 | 7 |
| 38 | I 2 | | | | 1 2 | 10 | 39 | I | | | 1 | 2 | 6 |
| 39 | | | | I | | 8 | | | | | 1 | 3 | 4 |
| 40 | 1 | | | i | 2 | 6 | 40 | 3 | | | | 3 | 1 |
| 4I | I | | | | | 6 | "* | 1 | | | ' | | |
| 42 | | | | 1 | 1 | 5 | | | | | | | |
| 43 | 2 | | | | 2 | 4 | 1 | | | | | | |
| 44 45 | 2 | | | | 2 | 2 | 1 | | | | | | |
| 45 | | - | - | | | | - | 046 | | 600 | | 1720 | 12521 |
| | 1011 | I | 673 | 80 | 1765 | 14099 | ļ | 946 | 2 | 690 | 92 | 1730 | 13531 |

TABLE 1. - Continued.

AGE AT ENTRY 27 (Next Birthday)

AGE AT ENTRY 28 (Next Birthday.)

| | N | имв | ER OF | ENT | RANTS | 1762 | Vears | N | IUMB | ER OF | ENT | RANTS | 1738. |
|-----|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|-----------------------------|
| sce | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death |
| _ | | | 75 | | 75 | | | | | 63 | | 63 | |
| | 79 | | 263 | 8 | 350 | 1687 | I | 78 | 2 | 23Š | 2 | 320 | 1675 |
| | 48 | | 101 | 7 | 156 | 1337 | 2 | 52 | | 85 | 5 | 1.42 | 1355 |
| | 50 | | 71 | 3 | 124 | 1181 | 3 | 44 | | 68 | Š | 120 | 1213 |
| - | 66 | | 26 | 5 | 97 | 1057 | 4 | 68 | | 39 | 4 | 111 | 1093 |
| 1 | 59 | | 34 | 5 | 98 | 960 | | 37 | | 35 | 2 | 74 | 982 |
| | 41 | | 18 | 1 | 62 | 862 | 5 | 51 | | 24 | 8 | 83 | 908 |
| | | | 18 | 3 | 64 | 800 | | 46 | į. | 16 | 6 | 68 | 825 |
| | 40 | | 16 | | 67 | 736 | 7 8 | 51 | | 18 | | 78 | 757 |
| | 47 | | | 4 | | 660 | | | | | 9 | 69 | 679 |
| | 48 | * • | 5 | 7 | 60 | | 9 | 49 | | 11 | 9 | 61 | 610 |
| | 47 | | 5 | 1 | 53 | 609 | 10 | 46 | | 11 | 4 | | |
| | 48 | | 6 | 4 | 58 | 556 | 11 | 43 | | 8 | 5 | 56 | 549 |
| | 39 | | 10 | 3 | 5.2 | 498 | 12 | 46 | | 2 | 3 | 51 | 493 |
| | 47 | | 3 | 1 | 51 | 446 | 13 | 48 | | 6 | 7 | 61 | 442 |
| | 49 | | 5 | ī | 5.5 | 395 | 14 | 26 | | 4 | 1 | 31 | 38 t |
| | 13 | | 5 | 2 | 20 | 3.40 | 15 | 20) | | | 1 | 33 | 350 |
| | 2.5 | | 3 | 2 | 30 | 320 | 16 | 19 | | 3 | ī | 23 | 317 |
| | 26 | | 1 | 2 | 29 | 290 | 17 | 20 | | I | 2 | 23 | 294 |
| | 23 | | ī | ŧ | 25 | 261 | 18 | 2.2 | | 2 | I | 25 | 2 7 I |
| | 26 | | 2 | 1 | 32 | 236 | 19 | 2.4 | | I | I | 26 | 246 |
| | 2.2 | | 2 | 1 | 25 | 204 | 20 | 19 | | 2 | 5 | 26 | 220 |
| - 1 | 16 | | 2 | 2 | 20 | 179 | 21 | 33 | | 3 | 3 | 39 | 194 |
| | 18 | | I | 3 | 22 | 159 | 22 | 28 | 3 | | 1 | 32 | 155 |
| j | 30 | 3 | 2 | 1 | 36 | 137 | 23 | 33 | | | 3 | 36 | 123 |
| | 9 | | I | I | 1.1 | 101 | 24 | 6 | | | 2 | 8 | 87 |
| | 9 | | | 2 | 1 1 | 90 | 25 | 10 | | | I | I I | 79 |
| | 7 | | | | 7 | 79 | 26 | 9 | | | 3 | 1.2 | 68 |
| | 7 | | | | 7 | 7.2 | 27 | 6 | | | | 6 | 56 |
| | 1 | | | | I | 65 | 28 | 2 | | | 1 | 3 | 50 |
| | 6 | | 3 | 1 | 10 | 64 | 29 | 2 | | | I | 3 | 47 |
| | 3 | | 1 | | 4 | 54 | 3ó | 2 | | | I | 3 | 44 |
| | 5 | | | . ! | 5 | 50 | 31 | 1 | | | 2 | 3 | 41 |
| | 5 | | | 1 | 6 | 45 | 32 | 3 | | | 1 | 4 | 38 |
| | 9 | | | ı | 0.1 | 39 | 33 | 9 | | | | 9 | 34 |
| | 2 | | | 2 | 4 | 29 | 34 | 2 | | | | 2 | 25 |
| | 1 | | | | 1 | 25 | 35 | 2 | | | | 2 | 23 |
| | 1 | | | | I | 2.4 | 36 | 1 | | | | I | 21 |
| | 3 | | | | | 23 | 37 | 3 | | | 1 | 4 | 20 |
| | 3 | | | ı | 3 | 20 | 38 | 3 | | | 1 | 4 | 16 |
| | .) | | | | 1 | 16 | 39 | 3 | | | | 3 | 1.2 |
| | | | | , | | | | 3 | | | | J | 9 |
| | 3 2 | | | 1 | 5 | 15 | 40 | | | | | | 8 |
| | - | | | 1 | 3 | 10 | 41 | 5 | | | | 5 | 3 |
| | | | * * | | | 7 | 42 | | | | | | |
| | 3 | | | | 3 | 7 | 43 | ı | | | | I | 3 2 |
| | 2 2 | | | | 2 2 | .1, 2 | 44 45 | 2 | | * * | | 2 | 2 |
| | | | | | | | 45 | | | | | | . — — . |
| 1 | 991 | 3 | 680 | 88 | 1762 | 14760 | | 985 | 5 | 643 | 105 | 1738 | 14820 |

TABLE I .- Continued.

AGE AT ENTRY 29 (Next Birthday.)

AGE AT ENTRY 30 (Next Birthday.)

| Years | N | UMB | ER OF | ENT | RANTS | 1655 | Years | N | UMB | R OF | ENT | RANTS | 1587. |
|-----------------|-----------|--------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|--------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured | With- drawn. | Died | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 57 | | 57 | | | | | 50 | | 50 | |
| I | 72 | | 224 | 1 | 297 | 1598 | I | 70 | | 217 | 4 | 291 | 1537 |
| 2 | 52 | | 87 | 9 | 148 | 1301 | 2 | 53 | | 83 | 6 | 142 | 1246 |
| 3 | 57 | | 49 | 10 | 116 | 1153 | 3 | 49 | | 50 | 4 | 103 | 1104 |
| | 73 | | 34 | 5 | 112 | 1037 | 4 | 46 | | 28 | 8 | 82 | 1001 |
| 4 5 6 | 40 | | 36 | 3 | 79 | 925 | 5 | 41 | | 34 | 3 | 78 | 919 |
| 6 | 37 | | 20 | 6 | 63 | 846 | 5 6 | 38 | | 28 | 6 | 7 2 | 841 |
| 7 | 35 | | 16 | 7 | 58 | 783 | | 46 | | 31 | 6 | 83 | 769 |
| 7 8 | 44 | | I 2 | 4 | 60 | 7 2 5 | 7 8 | 49 | | 15 | 2 | 66 | 686 |
| 9 | 37 | | 6 | 7 | 50 | 665 | 9 | 41 | | 13 | 1 | 55 | 620 |
| IÓ | 37 | I | 5 | 3 | 46 | 615 | ΙÓ | 42 | | 5 | 6 | 53 | 565 |
| II | 48 | 1 | 10 | 4 | 63 | 569 | II | 25 | | I | 7 | 33 | 512 |
| 12 | 51 | | 4 | 5 | 60 | 506 | 12 | 43 | | 5 | 5 | 53 | 479 |
| 13 | 46 | | 7 | 4 | 57 | 446 | 13 | 40 | | 6 | | 46 | 426 |
| 14 | 35 | | 4 | 3 | 42 | 389 | 14 | 31 | | 3 | 4 | 38 | 380 |
| 15 | 30 | | 4 | 1 | 35 | 347 | 15 | 20 | | 5 | 7 | 32 | 342 |
| 16 | 26 | `` | 7 | 3 | 36 | 312 | 16 | 20 | | 2 | 5 | 27 | 310 |
| 17 | 24 | | 2 | 1 | 27 | 276 | 17 | 27 | | 4 | 5 | 36 | 283 |
| 18 | 2 I | :: | 2 | ı | 2.4 | 249 | 18 | 21 | | 3 | 3 | 27 | 2.47 |
| 19 | 25 | 1 1 | | | 28 | 225 | 19 | 16 | | 5 | 3 | 24 | 220 |
| 20 | 14 | • • | | 3 2 | 16 | 197 | 20 | 19 | 5 | J | | 25 | 196 |
| 21 | 27 | 2 | 2 | l i | | 181 | 21 | 19 | 3 | | 3 | 25 | 171 |
| 22 | 14 | | 1 | 3 2 | 34 | 147 | 22 | 20 | | 2 | | 22 | 146 |
| 23 | 17 | | 1 | 1 1 | 18 | 130 | 23 | 16 | | ı | 2 | 19 | 124 |
| 24 | 14 | • • | | · · · | 15 | 112 | 24 | 15 | | 2 | 3 | 20 | 105 |
| 25 | 6 | | I | 2 | 9 | 97 | 25 | 13 | | 1 | 1 | 11 | 85 |
| 26 | | • • | | i I | 9 | 88 | 26 | 6 | ' ' | | I | 7 | 74 |
| 27 | 5 | | | 4 | 10 | 79 | 27 | _ | | | I | 5 | 67 |
| 28 | 5 | | | 4 | | 69 | 28 | 4 | | | 1 | 5 | 62 |
| 29 | 6 | | 1 | I | 7 8 | 62 | 29 | | | 1 | 1 | 6 | 57 |
| 30 | | | | i l | | | 30 | 5 2 | I | | 2 | 5 | 51 |
| 31 | 3 | | | 2 | 5 6 | 54 | | | 1 | | | 4 | 46 |
| | 3 | | 1 | 2 | | 49 | 31 | 4 | | 1 | 1 | 8 | 42 |
| 32 | 4 | I | | 2 2 | 7 | 43 | 32 | 2 | | | ! | 2 | 34 |
| 33 | 4 | | • • | 1 | | 36 | 33 | | | ī | | 7 | 34 |
| 34 | 5 | | • • • | 2 | 7 | 30 | 34 | 3 | | | 3 | | 25 |
| 35 | 3 | | | | 3 | 23 | 35 | | | I | ı | | |
| 36 | 1 | | | | 1 | 20 | 36 | 2 | | | | 4 2 | 25 21 |
| 37 | 2 | | | .: | 2 | 19 | 37 | 2 | | | | 2 | |
| 38 | I | | | I | 2 | 17 | 38 | 2 | | | | | 19 |
| 39 | 1 | | | I | 2 | 15 | 39 | 4 | | | 7 | 4 | |
| 40 | 2 | | | 1 | 2 | 13 | 40 | 2 | | | I 7 | 3 | 13 |
| 41 | I | 1 | | I | 2 | 1.1 | 41 | | | | I | | 10 |
| 42 | 3 | | | | 3 | 9 | 42 | 3 | | | | 3 | 9 |
| 43 | 3 | | | | 3 | 6 | 43 | I | | | 1 :: 1 | 1 | |
| 44 | | | | | | 3 | 44 | 1 | | | 1 | 2 | 5 |
| 44 45 46 | 2 | | | | 2 | 3 | 44 45 46 | 1 | | | • • | 1 2 | 3 |
| 40 | I | | | | 1 | 1 | 40 | 2 | | | | 2 | 2 |
| | 943 | 5 | 594 | 113 | 1655 | 14481 | | 872 | 9 | 598 | 108 | 1587 | 13934 |

TABLE 1. Continued.

AGE AT ENTRY 31 (Next Birthday

AGE AT ENTRY 32 (Next Birthday.)

| rs 1619 | EN. | UMBER OF | RANTS | 5 1516 |
|---------------------------------|--|---------------------------|-------|----------|
| I. Exposed to Risk of Death. | Die | Ma- With- tured, shawn | Lotal | Exp. dt. |
| | | . 63 | 63 | |
| 1555 | 2 | 210 | 282 | 1453 |
| 12.41 | 8 | 77 | 125 | 1171 |
| 1087 | . 7 | 50 | (1) | 1046 |
| 983 | 5 | 10 | 98 | 456 |
| 881 | 3 | 2.4 | 69 | 858 |
| 800 | 1 | 23 | 59 | 789 |
| 736 | .3 | 17 | 57 | 730 |
| 66.4 | 5 | 13 | 51 | 673 |
| 607 | () | 11 | 61 | 622 |
| 561 | ; | 1 5 | 52 | 56 t |
| 507 | .3 | 6 | 3.1 | 500 |
| 401 | 3 | 6 | 5.3 | 475 |
| 413 | 3 | (i | 43 | 422 |
| 374 | 2 | 5 | 12 | 379 |
| 338 | 3 | 1 | 2.4 | 337 |
| 320 | -4 | 3 | 23 | 313 |
| 293 | 4 | 2 | 20 | 200 |
| 260 | 2 | 4 1 | 2.2 | 270 |
| 233 | 2 | i | 31 | 248 |
| 210 | -1 | 2 | 26 | 217 |
| 182 | | | 28 | 191 |
| 149 | 3 | | 2.2 | 163 |
| 130 | 3 | I 2 | 2,3 | 141 |
| 103 | 1 | Ι | 15 | 118 |
| 86 | 3 | | 7 | 103 |
| 76 | 1 | 1 | 1.2 | 96 |
| 66 | 2 | | 1.5 | 8.4 |
| 58 | 1 | | 9 | ho |
| 5.5 | 2 | 1 | 5 | 60 |
| 45 | 1 | | 5 | 5.5 |
| 10 | 1 | | 5 | 3.5 |
| 36 | 1 | 1 | 7 | 45 |
| 20 | 3 | | 7 | 38 |
| 20 | 3 | | í) | 3.1 |
| 15 | 1 | | 2 | 2,5 |
| 13 | | | 2 | 23 |
| 12 | | | 5 | 21 |
| 12 | | | 2 | 16 |
| 1.1 | | | ī | 1 \$ |
| 1.1 | | | 3 | 13 |
| 8 | 1 | | 1 | 10 |
| 3 | | • | 1 | 0 |
| 3 | 1 | | 1 | 3 |
| 1 | · | • • | | . 7 |
| - | | | 3 | 1 |
| * | | | 1 | 1 |
| 12699 | TOF | 0 550 | 1516 | 13714 |
| I | 1 44 3 45 3 46 1 19 13688 824 9 578 | | | |

TABLE I.—Continued.

AGE AT ENTRY 33 (Next Birthday.)

AGE AT ENTRY 34 (Next Birthday.)

| Years | N | IUMB | ER OF | ENT | RANTS | 1378. | Years | N | имв | ER OF | ENT | RANTS | 1278. |
|---------------|-----------|---------------|---|------|----------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|-----------------------------|
| of surance | Existing. | Ma- tured. | With- drawn. | Died | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death |
| | | | 50 | | 50 | | | | | 40 | | 40 | |
| I | 37 | | 204 | 3 | 244 | 1328 | 1 | 45 | 1 | 154 | 4 | 204 | 1238 |
| 2 | | | 7-4 | 6 | 125 | 1084 | 2 | 35 | | 74 | | 113 | 1034 |
| | 45 | | | | 86 | | | 40 | | 52 | 12 | 104 | 921 |
| 3 | 40 | | 42 | 4 | 86 | 959 | 3 | | | _ | 6 | 78 | |
| 4 | 50 | | 27 | 9 | | 873 | 4 | 41 | | 31 | | | 817 |
| 5 | 36 | 1 | 26 | 5 | 68 | 787 | 5 | 29 | | 2.4 | 7 | 60 | 739 |
| | 30 | | 30 | 6 | 66 | 719 | 6 | 25 | 1 | 17 | 3 | 46 | 679 |
| 7 8 | 30 | | 1.4 | 8 | 52 | 653 | 7 8 | 38 | | 18 | 4 | 60 | 633 |
| 8 | 26 | , | 17 | 7 | 50 | 601 | | 38 | | 14 | 4 | 56 | 573 |
| 9 | 36 | | 12 | 5 | 53 | 551 | 9 | 34 | | 10 | 2 | 46 | 517 |
| ΙÓ | 30 | | 7 | 2 | 39 | 498 | 10 | 35 | 2 | 6 | 7 | 50 | 471 |
| II | 26 | | 5 | 2 | 33 | 459 | 11 | 28 | | 8 | 2 | 38 | 421 |
| 12 | 35 | | 5 | 1.3 | 53 | 426 | 12 | 2.4 | | 3 | 4 | 31 | 383 |
| 13 | 35 | | 3 | 3 | 41 | 373 | 13 | 30 | | 7 | 3 | 40 | 352 |
| 14 | 26 | | | 2 | 28 | 332 | 14 | 21 | : | 8 | 2 | 31 | 312 |
| | | | 9 | 3 | 37 | 304 | 15 | 17 | | 2 | 7 | 26 | 281 |
| 15 16 | 25 21 | | | | 28 | 267 | 16 | 12 | 1 | 1 | 5 | 19 | 255 |
| | | ': | 4 | 3 | | | | 21 | ī | 2 | 1 | - | |
| 17 | I 2 | 3 | 1 | 4 | 20 28 | 239 | 17 | | i ı | | i i | 25 | 236 |
| 18 | 2.4 | 1 | 2 | ı | | 219 | | 1.4 | | 3 | 5 | 22 | 211 |
| 19 | 8 | | I | i | 10 | 191 | 19 | 5 | | • • | 4 | 9 | 189 |
| 20 | 2 2 | | 5 | | 27 | 181 | 20 | 21 | | • • | 1 | 2 2 | 180 |
| 21 | 20 | | 2 | τ | 23 | 154 | 21 | 18 | 4 | • • | 4 | 26 | 158 |
| 22 | 19 | | 4 | 2 | 2.5 | 131 | 22 | 20 | I | 2 | I | 24 | 132 |
| 23 | 13 | | | | 13 | 106 | 23 | 1.4 | | 3 | 2 | 19 | 801 |
| 24 | 13 | | 1 | I | 15 | 93 | 24 | 8 | | I | 3 | 12 | 89 |
| 25 | 4 | | | 1 | 4 | 78 | 25 | 8 | | | 1 | 9 | 7.7 |
| 26 | 4 | | | 2 | 6 | 7.4 | 26 | 3 | 1 | | 2 | 6 | 68 |
| 27 | 10 | 2 | , <u>, , , , , , , , , , , , , , , , , , </u> | | 1.2 | 68 | 27 | 9 | | | 3 | 12 | 62 |
| 28 | 1 | 1 | 1 | 2 | 5 | 56 | 28 | 6 | | | 1 | 7 | 50 |
| | 1 | | | 3 | 5 | 51 | 29 | 3 | | | 4 | 7 | 43 |
| 29 | 2 | | 1 | | 6 | 46 | 30 | 3 | | 1 | 4 | 6 | 36 |
| 30 | 6 | | | 3 | | | | I | | | 1 1 | 1 | |
| 31 | | | | I | 7 | 40 | 31 | | | • • • | | 1 | 30 |
| 32 | 2 | | | 1 | 3 | 33 | 32 | 3 | | • • | | 3 | 29 |
| 33 | 2 | | | I | 3 | 30 | 33 | 3 | | • • | | 3 | 26 |
| 34 | | | | | | 27 | 34 | i | | | 1 | 2 | 23 |
| 35 | 1 | | | 3 | -1 | 27 | 35 | 1 | | | 1 | 2 | 21 |
| 36 | 1 | | | 2 | 3 | 23 | 36 | 4 | | | | 4 | 19 |
| 37 | 2 | | | 2 | 4 | 20 | 37 | 1 | | ٠. | I | 2 | 15 |
| 38 | 3 | | | 2 | 5 | 16 | 38 | 2 | ٠. | | | 2 | 13 |
| 39 | | | 1 | | ı | 1.1 | 39 | -1 | | | 2 | 6 | 1 1 |
| 40 | 1 | | | | I | 10 | 40 | I | | | 1 | 2 | 5 |
| 4 I | 2 | | | | 2 | 9 | 41 | 1 | | | 1 | 1 | 3 |
| 42 | 2 | | | | 2 | 7 | 42 | 1 | | | | I | 2 |
| 42 | 1 | | | 1 | 1 | | 43 | | | | | l | I |
| 43 | | | | | , | 5 | 43 | 1 | | | 1 1 | 1 | 1 |
| 44 45 | 1 | | | | | 4 | 44 | 1 * | | | | , | |
| 45 | 2 | | | | 3 | 3 | | | | | | | |
| | 707 | 8 | 549 | 114 | 1378 | 12166 | | 667 | 12 | 481 | 118 | 1278 | 11464 |

TABLE I. Continued.

AGE AT ENTRY 35 (Next Birthday)

AGE AT ENTRY 36 (Next Birthday)

| Years | ١ | IUMB | ER OF | ENT | RANTS | 1231 | Years | 1 | вми | ER OF | ENT | RANTS | 1145. |
|-----------------|-----------|---------------|-----------------|-------|--------|-----------------------------|-----------------|-----------|---------------|-----------------|-------|--------|-----------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Lxposed to Risk of Death |
| | | | 41 | | 4 I | | | | | .46 | | 46 | |
| I | 40 | | 151 | 2 | 193 | 1100 | I | 39 | | 151 | 8 | 198 | 1099 |
| 2 | 36 | 3 | 64 | 2 | 105 | 997 | 2 | 2.4 | | 68 | 7 | 99 | 001 |
| 3 | 33 | | 36 | 1 | 70 | 892 | 3 | 41 | | 38 | 3 | 82 | 802 |
| 4 | 39 | | 30 | 4 | 73 | 822 | 4 | 40 | | 26 | 4 | 70 | 720 |
| č | 44 | | 28 | 6 | 78 | 7.49 | 5 | 29 | | 10 | 1 4 | 52 | 650 |
| 5 | 19 | | 23 | 8 | 50 | 671 | 6 | 29 | | 15 | 6 | 50 | 598 |
| | 26 | | 15 | 8 | 49 | 621 | 7 | 22 | | 13 | 2 | 37 | 548 |
| 7 8 | | | 13 | 2 | 38 | 572 | 8 | 28 | | 11 | 6 | 45 | 511 |
| | 23 | | | | | | | | | 6 | 4 | 44 | 466 |
| 9 | 33 | | 9 8 | 5 | 47 | 534 | 9 | 34 | 1 1 | | | | 422 |
| 10 | 32 | | | 2 | 42 | 487 | 10 | 25 26 | | 5 | 1 4 | 35 | 387 |
| 11 | 27 | | 7 | 7 | 41 | 145 | II | | | 5 | 3 | 34 | |
| 12 | 37 | | 9 | 5 | 51 | 404 | 12 | 29 | | 7 | 3 | 39 | 353 |
| 13 | 24 | | 5 | 2 | 31 | 353 | 13 | 34 | | 5 | 1 | 40 | 314 |
| 14 | 18 | | 7 | 7 | 32 | 322 | 14 | 19 | 2 | 1 | I | 23 | 274 |
| 15 | 27 | 3 | 2 | 6 | 38 | 290 | 15 | 2 2 | | 6 | 4 | 32 | 251 |
| 16 | 17 | 1 | 6 | Ī | 24 | 252 | 16 | 10 | | 3 | 2 | 15 | 219 |
| 17 | 18 | | 2 | 3 | 23 | 228 | 17 | 16 | | 2 | 2 | 20 | 204 |
| 18 | 2 I | | E. | 5 | 27 | 205 | 18 | 17 | | 3 | 3 | 23 | 184 |
| 19 | 1.4 | | | 3 | 17 | 178 | 19 | 13 | 1 | 1 | | 15 | 161 |
| 20 | 17 | 3 | 2 | 2 | 2.4 | 161 | 20 | 10 | 2 | . 2 | 3 | 17 | 146 |
| 21 | 13 | 2 | I | 4 | 20 | 137 | 21 | 17 | 1 | | 1 | 18 | 129 |
| 22 | 27 | | 2 | 2 | 31 | 117 | 22 | 17 | | | I | 18 | 111 |
| 23 | 15 | I | 1 | ī | 18 | 86 | 23 | 1.4 | | | 2 | 16 | 93 |
| 24 | 8 | | | I | 9 | 68 | 24 | 1.1 | 1 | I | 1 | 1.4 | 7.7 |
| 25 | 8 | 3 | I | 1 | 13 | 59 | 25 | 5 | | | 4 | 9 | 63 |
| 26 | 5 | | | | 5 | 46 | 26 | 4 | 1 | | 1 | 5 | 54 |
| 27 | 7 | | | 3 | 10 | 41 | 27 | 2 | | | 5 | 7 | 49 |
| 28 | 1 | | ī | 2 | 4 | 31 | 28 | 4 | | | | 4 | 4.2 |
| 29 | 1 | | | ī | 2 | 27 | 29 | 3 | 1 | | | 4 | 38 |
| 30 | 2 | | I | | 3 | 25 | 30 | 2 | | | 2 | 4 | 34 |
| 31 | ī | | | | ī | 2.2 | 31 | 4 | | | I | 5 | 30 |
| 32 | 6 | | | 3 | 9 | 21 | 32 | 3 | | I | | 4 | 25 |
| 33 | | | | , | | 1.2 | 33 | 2 | 1 | | 1 | 3 | 2 1 |
| 34 | | | | | | 1.2 | 34 | 1 | 1 | | | 1 | 18 |
| 35 | | | | 1 | I | 1.2 | 35 | 1 | | | 2 | 3 | 17 |
| 36 | 2 | 1 | | | 2 | 1.1 | 36 | ı | | | 1 | 2 | 14 |
| 37 | | 1 | | I | ı | 9 | 37 | 1 | | | 1 | 2 | 12 |
| 38 | 2 | | | | 2 | š | 38 | 2 | | | | 2 | 10 |
| 39 | 2 | | | | 2 | 6 | 39 | ī | | | 2 | 3 | 8 |
| 40 | ı | | · | | 1 | | 40 | 2 | | | 2 | 4 | 5 |
| 41 | • | 1 | | | • | 4 | 41 | - | | | - | ~9 | 1 |
| 42 | | | | | | 3 | 42 | | 1 | | | | i |
| 42 | Ţ | | | | 1 | 3 | | | | | | | , |
| 43 | ī | 1 | | | ī | 3 2 | 43 | * | | | | 1 | i |
| 44 45 | í, | | | | I | 1 | 44 | 1 | | | | | |
| | 649 | 15 | 466 | IOI | 1231 | 11139 | | 605 | 8 | 435 | 97 | 1145 | 10064 |

TABLE I.—Continued.

AGE AT ENTRY 37 (Next Birthday.)

AGE AT ENTRY 38 (Next Birthday.)

| Years | ١ | IUMB | ER OF | ENT | RANTS | 1077 | Years | , | NUMB | ER OF | ENT | RANTS | 990. |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 33 | | 33 | | | | | 45 | | 40 | |
| I | 36 | 1 | 146 | 2 | 184 | 1044 | I | 36 | | 123 | 2 | 161 | 950 |
| 2 | 37 | 1 | 62 | 4 | 104 | 860 | 2 | 28 | | 63 | 3 | 94 | 789 |
| 3 | 28 | . 1 | 30 | | 59 | 756 | 3 | 28 | | 2.4 | 5 | 57 | 695 |
| 4 | 36 | | 2.1 | 3 | 63 | 697 | 4 | 36 | | 19 | 3 | 58 | 638 |
| Ś | 26 | | 19 | 5 | 50 | 634 | 5 6 | 25 | | 19 | I | 45 | 580 |
| 5 6 | 24 | ! | 13 | 6 | 43 | 584 | | 18 | | 13 | 4 | 35 | 535 |
| 7 8 | 36 | | 12 | 4 | 52 | 541 | 7 | 23 | | 16 | | 39 | 500 |
| 8 | 23 | | 9 | 4 | 36 | 489 | 8 | 23 | | 1.4 | () | 43 | 461 |
| 9 | 22 | | 6 | 2 | 30 | 453 | 9 | 15 | | 3 | 3 | 2 I | 418 |
| 10 | 31 | | 4 | 7 | 42 | 423 | 10 | 24 | | 8 | 3 | 35 | 397 |
| II | 18 | | 7 | 1 | 26 | 381 | II | 22 | | 6 | 2 | 30 | 362 |
| 12 | 28 | | 4 | 2 | 34 | . 355 | 12 | 21 | | 6 | | 27 | 332 |
| 13 | 25 | | 3 | I | 29 | 321 | 13 | 25 | | 1 | 2 | 28 | 305 |
| 14 | 22 | | 2 | 5 | 29 | 292 | 14 | 17 | | -4 | 4 | 25 | 277 |
| 15 | 25 | | 4 | 7 | 36 | 263 | 15 | 20 | | 4 | 4 | 28 | 252 |
| 16 | 15 | | 1 | | 16 | 227 | 16 | 19 | | 2 | | 2 [| 224 |
| 17 | 14 | | 2 | 3 | 19 | 211 | 17 | 16 | 2 | I | 2 | 21 | 203 |
| 18 | 1.3 | | I | 1 | 15 | 192 | 18 | 15 | 1 | | 3 | 19 | 182 |
| 19 | 9 | 2 | | 1 | 11 | 177 | 19 | 15 | | | 2 | 17 | 163 |
| 20 | 12 | 1 | 2 | 4 | 18 | 166 | 20 | 14 | | ı | 3 | 18 | 146 |
| 21 | 19 | | 1 | 2 | 22 | 148 | 21 | 11 | | I | 5 | 17 | 128 |
| 22 | 18 | | 2 | 4 | 2.4 | 126 | 22 | 2 I | | 2 | 3 | 26 | 111 |
| 23 | 23 | 2 | | 6 | 31 | 102 | 23 | 1.4 | 1 | ī | 3 | 19 | 85 |
| 24 | 7 | 1 | | 1 | 9 | 7.1 | 24 | 9 | 1 | ī | 2 | 12 | 66 |
| 25 | 4 | | I | | 5 | 62 | 25 | 3 | | | | 3 | 5-4 |
| 26 | 6 | | 1 | 1 | 8 | 57 | 26 | 6 | 1 | | 1 | 7 | 51 |
| 27 | | | | 4 | 4 | 49 | 27 | 8 | | | 1 | 9 | 44 |
| 28 | 3 | | | 1 | 4 | 45 | 28 | 1 | | | | 1 | 35 |
| 29 | 2 | | | 2 | 4 | 41 | 29 | 2 | | | 4 | 6 | 34 |
| 30 | 1 | | | 1 | 2 | 37 | <u>3</u> ó | | | | | | 28 |
| 31 | 4 | | | 1 | 5 | 35 | 31 | 2 | | | 1 | 3 | 28 |
| 32 | 3 | | | 1 | 4 | 30 | 32 | 3 | | ı | I | 5 | 25 |
| 33 | | | 1 | 1 | 2 | 26 | 33 | 3 | | | 2 | 5 | 20 |
| 34 | 1 | | | 2 | 3 | 2.4 | 34 | | | | | | 15 |
| 35 | | | | | | 2 I | 35 | I | | | | I | 15 |
| 36 | | | | ı | ī | 2 [| 36 | 1 | | | 2 | 3 | 14 |
| 37 | | | | 2 | 2 | 20 | 37 | 2 | | | I | 3 | 11 |
| 38 | I | | | | I | 18 | 38 | 2 | | | 1 | 3 | 8 |
| 39 | | | 1 | 3 | 4 | 17 | 39 | | | | | | 5 |
| 40 | | | | | 3 | 13 | 40 | I | | | | I | 5 |
| 41 | 3 2 | | ı | | 3 | 10 | 41 | | | | ī | I | 4 |
| 42 | 3 | | | | 3 | 7 | 42 | | | 1 | ı | 1 | 3 |
| 43 | 2 | | | I | 3 | 4 | 43 | | | 1 | I | I | 2 |
| 43 | | | | | | I | 44 | 1 | | | | I | 1 |
| 44 45 | 1 | | | | τ | 1 | 1 | | | | | | |
| ,, | | | | -!! | | | | FOR | | 272 | 82 | 000 | 0201 |
| | 583 | 7 | 392 | 95 | 1077 | 10052 | | 531 | 4 | 373 | 02 | 990 | 9201 |

TABLE I. Continued.

AGE AT ENTRY 39 (Next Birthday.)

AGE AT ENTRY 40 (Next Birthday)

| Years | | NUME | BER OF | ENT | RANTS | 860. | Years | 1 | иимв | ER OF | ENT | RANTS | 815 |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------|-----------|---------------|-----------------|-------|----------------------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | Assurance | Existing. | Ma- tured. | With- drawn, | Died. | 1 ota ^r . | Exp. ed to Rick of Death. |
| | | | 27 | | 27 | | | | | 2 } | | 23 | |
| I | 31 | t | 10.1 | 5 | 1.1.1 | 833 | I | 31 | ι | 83 | 1 | 116 | 792 |
| 2 | 25 | | 38 | 4 | 67 | 692 | 2 | 29 | | 35 | I | 65 | 676 |
| 3 | 2.1 | | 31 | 4 | 56 | 625 | 3 | 19 | I | 26 | 5 | 51 | 611 |
| 4 | 33 | | 20 | 6 | 59 | 569 | 4 | 33 | | 15 | S | 56 | 560 |
| 5 6 | 20 | | 17 | 2 | 39 | 510 | 5 6 | 18 | I | 20 | 2 | 41 | 50.1 |
| | 20 | | 1.4 | 6 | 40 | 47 I | 6 | 21 | | 9 | 3 | 33 | 463 |
| 7 8 | 33 | | 7 | 2 | 42 | 431 | 7 | 26 | | 8 | 5 | 39 | 430 |
| 8 | 2.1 | | -4 | 2 | 27 | 389 | 8 | 22 | | 9 | 7 | 38 | 391 |
| 9 | 2.1 | | 7 | 4 | 3.2 | 362 | 9 | 2 I | ı | 5 | 2 | 29 | 353 |
| 10 | 25 | | -4 | 5 | 34 | 330 | 10 | 2 [| I | 4 | 2 | 2 Ś | 324 |
| II | 18 | | 3 | 3 | 2.4 | 296 | 11 | 21 | | 6 | | 27 | 296 |
| 12 | 2.2 | | 3 | 1 | 26 | 272 | 12 | 28 | | 2 | 4 | 34 | 269 |
| 13 | 17 | | | . 3 | 20 | 2.16 | 13 | 27 | | 2 | Ī | 30 | 235 |
| 14 | 17 | | 3 | 2 | 22 | 226 | 14 | 20 | | I | I | 2.2 | 205 |
| 15 | 10 | | | 5 | 15 | 204 | 15 | 10 | | 3 | 2 | 15 | 183 |
| ıŏ | 10 | 3 | ı | 6 | 20 | 189 | 16 | -1 | | 5 | 3 | 1.2 | 168 |
| 17 | 10 | , | 2 | 2 | 1.4 | 169 | 17 | 11 | | ī | 2 | 1.1 | 156 |
| 18 | 13 | | 1 | 2 | 16 | 155 | 18 | 9 | 1 | 2 | -4 | 15 | 142 |
| 19 | 7 | | | 3 | 10 | 139 | 19 | 11 | | I | 3 | 15 | 127 |
| 20 | 10 | | | I | 11 | 129 | 20 | 11 | 7 | I | 4 | 23 | 112 |
| 21 | 2 I | 2 | 1 | 3 ; | 27 | 118 | 21 | 10 | 1 | I | | 1.2 | 89 |
| 22 | 20 | | 2 | 3 | 25 | 91 | 22 | 14 | | | 2 | 16 | 7.7 |
| 23 | 9 | | | 2 | 11 | 66 | 23 | 11 | | | ī | 12 | 61 |
| 24 | 3 | | | | 3 | 55 | 24 | 6 | | | I | 7 | 49 |
| 25 | 4 | | | 1 | 5 | 52 | 25 | 2 | | | t | 3 | 42 |
| 26 | 3 | | | 1 | 4 | 47 | 26 | 5 | | | | 5 | 30 |
| 27 | 2 | | | 1 | 3 | 43 | 27 | 2 | | | | 2 | 34 |
| 28 | 2 | | | 4 | 6 | 40 | 28 | ī | | | | I | 32 |
| 29 | 2 | 1 | | 2 | 4 | 3.4 | 29 | ī | | | 2 | . 3 | 31 |
| 30 | 2 | 1 | | 2 | 4 | 30 | 30 | 2 | | | 1 | 3 | 28 |
| 31 | ī | | | 2 | 3 | 26 | 31 | 1 | | | | 1 | 25 |
| 32 | 2 | 1 | | | 2 | 23 | 32 | 4 | | | 3 | 7 | 2.4 |
| 33 | 2 | | | 1 | 3 | 21 | 33 | 2 | | | 3 | 5 | 17 |
| 34 | | | | | | 18 | 34 | | | 1 | 1 | 2 | 1.2 |
| 35 | 1 | 1 | | | I | 18 | 35 | | | | I | ī | 10 |
| 36 | 1 | | | 1 2 | 3 | 17 | 36 | ī | | | • | | 9 |
| 37 | 2 | | | | 2 | 14 | 37 | ı | | | | 1 | Ś |
| 38 | - | | . , | 1 | ī | 1 2 | 38 | | | | | • | - |
| 39 | 2 | | | 1 | 2 | 11 | 39 | 2 | | | | 7 | 7 |
| 40 | 1 | | , | | 1 | | | 3 | | | | 3 | |
| 41 | ı | , | | | t | 8 | 40 41 | ī | | | | 1 | 4 2 |
| 42 | 2 | | | | , | | 42 | • | | | , , | , | 1 |
| 43 | ī | | • | I | 2 | 7 | | 1 | • • | | | I | 1 |
| | | | | ī | | 5 | 43 | I | | | | 1 | 4 |
| 44 45 | I | | | | 1 | 3 | | | | | | | |
| | 470 | 6 | 289 | 95 | 860 | 8006 | | 463 | I3 | 263 | 76 | 815 | 7606 |

TABLE I.—Continued.

AGE AT ENTRY 41 (Next Birthday.)

AGE AT ENTRY 42 (Next Birthday.)

| Years | N | имв | ER OF | ENT | RANTS | 740. | Years of | N | IUMB | ER OF | ENT | RANTS | 656. |
|-----------------|-----------|--------------|-----------------|------|--------|------------------------------|-------------|----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured | With- drawn. | Died | Total. | Exposed to Risk of Death. | Assurance | Existing | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 19 | | 19 | | | | | 2.4 | | 24 | |
| I | 33 | | 90 | 3 | 126 | 721 | I | 25 | 1 | 77 | 5 | 108 | 632 |
| 2 | 24 | | 37 | 2 | 63 | 595 | 2 | 1.4 | | 39 | 1 | 54 | 524 |
| 3 | 19 | | 23 | 4 | 46 | 532 | 3 | 24 | | 19 | 3 | 46 | 470 |
| 4 | 32 | | 15 | | 47 | 486 | 4 | 2 2 | | 13 | 2 | 37 | 424 |
| 4 5 6 | 1.2 | | 1.4 | 3 | 29 | 439 | 5 6 | 18 | | 11 | I | 30 | 387 |
| | 2 I | | 20 | 2 | 43 | 410 | | 1.4 | | 8 | 6 | 28 | 357 |
| 7 8 | 15 | | 13 | 3 | 31 | 367 | 7 | 25 | I | I 2 | 3 | 4 I | 329 |
| 8 | 23 | | 8 | 2 | 33 | 336 | 8 | 15 | | 5 | 1 | 21 | 288 |
| 9 | 16 | | 6 | 2 | 24 | 303 | 9 | 15 | | 2 | 3 | 20 | 267 |
| ΙÓ | 15 | | 2 | I | 18 | 279 | 10 | 16 | | 3 | ı | 20 | 247 |
| 11 | 18 | | 7 | 5 | 30 | 261 | II | 16 | | 3 | 6 | 25 | 227 |
| 12 | 18 | I | | I | 20 | 231 | 12 | 14 | | | ı | 15 | 202 |
| 13 | 1.3 | | 2 | 4 | 19 | 211 | 13 | 16 | | 1 | 3 | 20 | 187 |
| 14 | 20 | | 3 | 2 | 25 | 192 | 14 | 17 | | 1 | 5 | 23 | 167 |
| 15 | I 2 | | I | 6 | 19 | 167 | 15 | 7 | | | I | 8 | 144 |
| 16 | 1 1 | | I | 3 | 15 | 1.48 | 16 | 14 | 1 | 1 | 2 | 17 | 136 |
| 17 | 6 | | 3 | 3 | 12 | 133 | 17 | 10 | | 1 | 2 | 13 | 119 |
| 18 | 7 | | | 1 | 8 | 121 | 18 | 11 | 1 | 2 | 1 | 15 | 106 |
| 19 | 7 | 4 | | 4 | 15 | 113 | 19 | 4 | I | I | 2 | 8 | 91 |
| 20 | 7 | i . | | I | 11 | 98 | 20 | 11 | | 1 | ı | 13 | 83 |
| 21 | 12 | 3 | 1 | 3 | 16 | 87 | 21 | 7 | | ı | 4 | 12 | 70 |
| 22 | 6 | | l .: | 2 | 8 | 71 | 22 | 8 | | | 5 | 13 | 58 |
| 23 | 10 | | I | | 11 | 63 | 23 | 7 | | | | 7 | 45 |
| 24 | | | | 2 | 11 | 52 | 24 | 2 | | | 1 | 3 | 38 |
| 25 | 9 | | 1 | 2 | 5 | 41 | 25 | 1 | | | 2 | 3 | 35 |
| 25 26 | 1 | | | 1 | I I | 36 | 26 | I | | | | I | 32 |
| | 2 | | | | | 35 | 27 | 5 | | | 1 | 6 | 31 |
| 27 28 | I | | | 3 | 5 | 30 | 28 | 2 | | | 3 | 5 | 25 |
| | _ | | | 2 | 3 | 27 | 29 | 2 | | | | 2 | 20 |
| 29 | I | | | | 3 | 2.1 | 30 | I | | 1 1 | 2 | 4 | 18 |
| 30 | | | | · · | | 2.4 | 31 | | :: | | 1 | I | 14 |
| 31 | 2 | | | 1 | 3 2 | 21 | 32 | 2 | :: | 1 | | 2 | 13 |
| 32 | 1 | | | I | | 19 | 33 | I | :: | | | I | 11 |
| 33 | 1 | | | 3 | 4 | _ | 34 | | | | | | 10 |
| 34 | • • | | | · · | | 15 | 35 | 1 | } | | 1 1 | | 10 |
| 35 | | | | I | 1 2 | 15 | 36 | 2 | | ٠. | 1: | 2 | 10 |
| 36 | 2 | | | | | 14 | 37 | I | | | I | 2 | 8 |
| 37 | | | | 2 | 2 |) | 38 | | | ٠. | i l | | 6 |
| 38 | | | | | ٠. | 10 | | | | | | • • | 6 |
| 39 | 1 | | | 3 | 4 | 10 | 39 40 | 2 | | • • • | | 2 | 6 |
| 40 | I | | | | I | 6 | | 1 | | | • • | 1 | |
| 4I | 1 | | | 2 | 3 | 5 | 4I 42 | 1 | | • • • | ı | I | 4 |
| 42 | I | | | 1 11 | 1 | 2 | | | | | 1 1 | 1 | 3 2 |
| 43 | | | | 1 | I | 1 | 43 44 | · · · | | | 1 | 1 | I |
| | 383 | 8 | 267 | 82 | 740 | 6763 | | 354 | 4 | 226 | 72 | 656 | 5863 |

TABLE I. Continued.

AGE AT ENTRY 43 (Next Birthday.)

AGE AT ENTRY 44 (Next Birthday.)

| Vears | N | имв | ER OF | ENT | RANTS | 590 | Years 1 | ١ | NUMB | ER OF | ENT | RANTS | 501. |
|-----------------|-----------|---------------|-----------------|------|--------|------------------------------|-----------------|-----------|--------------|-----------------|-------|--------|-----------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured | With- drawn. | Died. | Total. | Exposed to Risk of Death |
| | | | 15 | | 15 | | | | | 1.1 | | 14 | |
| I | 2.1 | | 86 | | 107 | 575 | 1 | 1.7 | | 68 | 1 | 86 | 487 |
| 2 | 1.4 | | 30 | 2 | 46 | 468 | 2 | 1.4 | | 21 | 1 | 36 | 101 |
| 3 | 19 | | 1.2 | 2 | 33 | 422 | 3 | 17 | | 19 | 3 | 39 | 365 |
| 4 | 18 | | 7 | -1 | 29 | 389 | 4 | 18 | | Ś | 2 | 28 | 326 |
| 7 | 9 | 1 | 1.4 | 3 | 27 | 360 | 5 | 16 | 1 | 13 | 5 | 35 | 298 |
| 5 | 10 | | 10 | 2 | 22 | 333 | 6 | 8 | | 9 | 3 | 20 | 263 |
| 7 | 11 | | 1.4 | 5 | 30 | 311 | 7 | 13 | | Ś | 4 | 25 | 243 |
| 8 | 12 | | | | 21 | 281 | 8 | 10 | | | | 16 | 218 |
| | | | 4 | 5 | 1 | 260 | 1 | 12 | | 3 | 3 | 19 | 202 |
| 9 | 11 | | 3 | 6 | 20 | | 9 | | | 4 | 3 | , | |
| 01 | 1.4 | | 2 | 2 | 18 | 2.40 | 10 | 15 | | 3 | 2 | 20 | 183 |
| ΙΙ | 15 | | 2 | 2 | 19 | 222 | 11 | 6 | | I | 3 | 10 | 163 |
| 12 | 13 | I | 1 | 3 | 18 | 203 | 12 | 16 | | 2 | 1 | 19 | 153 |
| 13 | 17 | I | | 1 1 | 18 | 185 | 13 | 20 | | 2 | | 2 2 | 134 |
| 14 | 16 | | I | I | 18 | 167 | 14 | 11 | | 1 | 2 | 1.4 | 112 |
| 15 | 9 | | | 2 | 1.1 | 149 | 15 | 3 | | 1 | | -1 | 98 |
| 16 | 1 [| | I | I | 13 | 138 | 16 | -4 | 3 | T . | | 8 | 94 |
| 17 | 9 | I | | 1 | 1.1 | 125 | 17 | 3 | 2 | | 1 | 6 | 86 |
| 18 | 10 | 2 | | 3 | 15 | 114 | 18 | -4 | 1 | | 2 | . 6 | So |
| 19 | 7 | | | 2 | 9 | 99 | 19 | 3 | 1 | 1 | | 4 | 7-1 |
| 20 | 11 | | | 2 | 13 | 90 | 2ó | 7 | 1 | 1 | 1 | 9 | 70 |
| 21 | 10 | | | -1 | 14 | 77 | 21 | 5 | 2 | | 1 | 7 | 61 |
| 22 | 1.2 | | | 1.7 | 12 | 63 | 22 | 5 | | | 2 | 7 | 54 |
| 23 | 8 | | | | . 11 | 51 | 23 | 10 | | | 2 | 1.2 | 47 |
| 24 | | | | 3 2 | 6 | _ | 24 | | | | | 3 | 35 |
| | 4 | | | 2 | | 40 | | 3 | | , . | | | 1 |
| 25 | 3 | | | 1 | 5 | 34 | 25 | | | •• | -4 | 4 | 32 |
| 26 | 5 | | | 2 | 7 | 29 | 26 | 3 | 1 | | | 3 | |
| 27 | 2 | | | 2 | -4 | 2 2 | 27 | 3 | | • • • | 1 | -4 | 25 |
| 28 | 2 | | | | 2 | 18 | 28 | 1 | 1 | | | I | 2 1 |
| 29 | I | | | 2 | 3 | 16 | 29 | 2 | | | I | 3 | 20 |
| 30 | | | | I | 1 | 13 | 30 | | | | | | 17 |
| 31 | 1 | | , , | | 1 | 1.2 | 31 | 3 | | | 1 | 4 | 17 |
| 32 | | | | 2 | 2 | 1 1 | 32 | ī | | | 3 | 4 | 13 |
| 33 | 1 | | | 1 | , 1 | 9 | 33 | 1 | | | | 1 | 9 |
| 34 | | , , ' | | | | 8 | 34 | I | | | | I | 8 |
| 35 | 1 | | | 2 | 3 | 8 | 35 | | | | 3 | 3 | 7 |
| 36 | 1 | | | 2 | 3 | 5 | 36 | 1 | | | | I | 4 |
| 37 | | | | 1 | I | 2 | 37 | | | | 1 | 1 | 3 |
| 38 | | | | | | ī | 38 | | | | I | 1 | 2 |
| 39 | | | | 1 | 1 | t | 39 | | | | , , | | ī |
| 39 | | | | | | • | 40 | | | | | | ī |
| | | | | | | | | | | | | | 1 |
| | | | | | | | 41 42 | 1 | | | | I | t |
| | 308 | 6 | 202 | 74 | 590 | 5551 | | 257 | 8 | 180 | 56 | 501 | 4457 |

TABLE I.—Continued.

AGE AT ENTRY 45 (Next Birthday.)

AGE AT ENTRY 46 (Next Birthday.)

| Years | N | имв | ER OF | ENT | RANTS | 486. | Years | N | UMB | ER OF | ENT | RANTS | 386. |
|-----------------|-----------|---------------|-----------------|-------|------------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 14 | | 14 | | | · · · | · | 9 | 1 | 9 | |
| I | 15 | | 51 | 3 | 69 | 472 | 1 | 10 | | 43 | 6 | 59 | 377 |
| 2 | 1.4 | | 13 | | 27 | 403 | 2 | 9 | I | 13 | 1 | 24 | 318 |
| 3 | 17 | | 13 | 2 | 32 | 376 | 3 | 15 | | 11 | I | 27 | 294 |
| 4 | 15 | | 7 | 7 | 29 | 344 | 4 | 11 | | 6 | 3 | 20 | 267 |
| 5 | 13 | | 13 | 2 | 28 | 315 | ; | 7 | | 13 | 4 | 24 | 247 |
| 5 6 | 12 | | 2 | 2 | 16 | 287 | 5 6 | 9 | | 7 | 2 | 18 | 223 |
| 7 | 25 | | 6 | 1 | 32 | 271 | | 12 | | i s | 3 | 23 | 205 |
| 7 8 | 8 | | 3 | 4 | 15 | 239 | 7 8 | 10 | | 3 | 2 | 15 | 182 |
| 9 | 8 | | 3 | 2 | 13 | 224 | 9 | 5 | | 2 | 4 | 11 | 167 |
| IÓ | 14 | | 6 | 5 | 25 | 211 | IÓ | 12 | | 5 | 3 | 20 | 156 |
| II | 12 | `` | 2 | I | 15 | 186 | 11 | 6 | | 3 | 1 | 10 | 136 |
| 12 | 11 | :: | 2 | 6 | 19 | 171 | 12 | 11 | | 4 | | 15 | 126 |
| 13 | 8 | | 2 | 2 | 12 | 152 | 13 | 11 | | | | 11 | 111 |
| 14 | 9 | | | 2 | 11 | 140 | 14 | 6 | :: | 1 | 1 | 8 | 100 |
| 15 | 7 | 4 | | 1 1 | 16 | 129 | 15 | 6 | | 2 | 2 | 10 | 92 |
| 16 | 6 | | :: | 5 5 | 11 | 113 | 16 | 5 | | | 2 | 7 | 82 |
| 17 | 6 | | 3 | 4 | 13 | 102 | 17 | 6 | | | | 6 | 7.5 |
| 18 | | | 1 2 | | 11 | 89 | 18 | 5 | | | | 5 | 69 |
| 1 | 5 | | 1 | 5 | | 78 | 19 | 6 | :: | 2 | 1 | 9 | 64 |
| 19 20 | 6 | | | 3 | 4 | 74 | 20 | | | 1 | | 5 | 55 |
| 21 | 8 | | • • • | 1 | 7 | 67 | 21 | 4 | | ı | · · · | 15 | 50 |
| 22 | 1 | 1 | | | 9 | 58 | 22 | 13 | | | | 6 | 35 |
| | 8 | | | 2 | 1.4 1.1 | | | 10 | | ı | • • | 11 | 29 |
| 23 | 1 | * * | | 3 | 8 | 44 | 23 | 2 | | ł | 1 | | 18 |
| 24 | 6 | | | 2 | ! | 33 | 24 | | | | I | 3 | 15 |
| 25 26 | I | | | | 1 | 25 | 25 26 | | | | | 1 | 14 |
| 20 | 2 | 1 | | 2 | 4 | 24 | | | | | 1 :: | | 1 |
| 27 28 | 2 | | '' | 2 | 4 | 20 16 | 27 28 | 2 | ١., | | I | 3 | 1.4 |
| 20 | 1 | | | 3 | 4 | 1 | | 3 | | | | 3 | 8 |
| 29 | 2 | | | 1 | 3 | 12 | 29 | | | | 1 | • • | 8 |
| 30 | | | I | ٠. | I | 9 8 | 30 | | | | | • • | 8 |
| 31 | | | | I | I | 1 | 31 | | | | | 2 | 8 |
| 32 | 2 | | | I | 3 | 7 | 32 | I | | | I | 1 | 6 |
| 33 | 1 | 1 | 1 | 1 | 2 | 4 | 33 | 1 | | | | | 1 |
| 34 | | | • • • | 1 | I | 2 | 34 | | | | I | I | 5 |
| 35 36 | | | | | • • • | I | 35 | | | | ι | I | 4 |
| 30 | | | ٠. | | • • | I | 36 | 1 | | • • | 1 | I | 3 |
| 37 | | | | | | I | 37 | | | | | | 2 2 |
| 38 | | ٠. | | | | I | 38 | · : | | | | | 2 |
| 39 | | | | I | I | I | 39 | 1 | | | • • | I | 2 |
| | | | } | | | | 40 | | | | | | 1 |
| | | | | | | | 41 42 | | • • | • • • | | | I |
| | | | | | | | 42 | | | • • | • • | | I , |
| | | | | | | | 43 | | | | | | I |
| 1 | | | | | | | 44 45 | | | • • | | | I |
| | | | | | | | 45 | • • | | | | I | 1 |
| | 257 | 5 | 143 | 81 | 486 | 4710 | | 206 | I | 135 | 44 | 386 | 3594 |

TABLE 1. Continued.

AGE AT ENTRY 47 (Next Earthday.

AGE AT ENTRY 48 (Next Birthday.)

| Vegrs | | NUME | BER O | F ENT | RANT | s 364 | Years | ١ | имв | ER OF | ENT | RANTS | 323 |
|-----------|-----------|--------------|-----------------|-------|--------|------------------------------|-----------|----------|--------------|----------------|-------|--------|----------------------------|
| Assurance | Existing. | Ma- tured | With- drawn. | Died. | Total. | Lxp sed to Risk of Death. | Assurance | Existing | Ma- tured | With- drawn | Died. | Total. | Lxpo eo t Pask of Death |
| | | | S | | 8 | | | | | 6 | | () | - |
| I | 20 | ı | 30 | 2 | 5.3 | 356 | I | 1.4 | | 30 | | -1.1 | 317 |
| 2 | S | | 1.4 | 3 | 25 | 303 | 2 | 4 | | 11 | 2 | 17 | 273 |
| 3 | 1 1 | | 16 | 3 | 30 | 278 | 3 | 9 | | 9 | 5 | 23 | 250 |
| 4 | 1.4 | | 6 | ı | 2.1 | 2.48 | 4 | 0.1 | | 6 | 2 | 18 | 233 |
| 5 | 9 | | 1.1 | 2 | 22 | 227 | 5 | 1.2 | | 7 | 2 | 2 I | 215 |
| | 8 | | 7 | - 1 | 10 | 205 | | 2 | | 8 | 5 | 1.5 | 104 |
| 7 8 | 1.2 | | ī | 2 | 15 | 180 | 7 | 1.2 | | 2 | - 4 | 18 | 179 |
| | 1.4 | | 6 | 4 | 24 | 174 | 8 | 9 | | 4 | 2 | 15 | 101 |
| 9 | 6 | | | 1 | 7 | 150 | 9 | 9 | | 3 | | 1.2 | 140 |
| IO | 13 | 1 | 1 | 3 | 18 | 1.43 | 10 | 11 | I | 2 | 2 | 16 | 1.3.4 |
| II | 10 | | I | 4 | 15 | 125 | II | 7 | | 1 | 1 | 9 | 118 |
| 12 | 9 | | 3 | 1 | 13 | 110 | 12 | 1.4 | I | 2 | 2 | 19 | 109 |
| 13 | 15 | 1 | | 3 | 19 | 97 | 13 | 12 | 1 | I | 3 | 17 | 90 |
| 14 | 5 | 1 | 1 | 2 | 9 | 78 | 14 | 6 | | 1 | | 7 | 7.3 |
| 15 16 | 5 | | ī | 1 | 7 | , 69 | 15 | 5 | | | 2 | 7 | 66 |
| | 4 | | 1 | | 5 | 62 | 16 | -4 | | | 2 , | 6 | 59 |
| 17 | 3 | | | 3 | 6 | 57 | 17 | 4 | | I | 2 | 7 | 53 |
| 18 | 2 | 1 | I | 2 | 6 | 51 | 18 | -4 | | | 4 | 8 | 46 |
| 19 | 6 | 1 | | 3 | 10 | 45 | 19 | 3 | | | | 3 | 38 |
| 20 | 4 | | I | 2 | 7 | 35 | 20 | 5 | | | 2 | 7 | 35 |
| 21 | 3 | | | 1 | 4 | 28 | 21 | 3 | | | 1 | 4 | 28 |
| 22 | 6 | | | 1 | 7 | 2.4 | 22 | | | | 2 | 2 | 2.4 |
| 23 | | | | : | | 17 | 23 | 3 | | | 2 | 5 | 2.2 |
| 24 | 3 | | | | 3 | 17 | 24 | 1 | | | I | 2 | 1.7 |
| 25 | | | | | | 1.4 | 25 | Ţ | | | 2 | 3 | 1.5 |
| 26 | | ; | I | 1 | 2 | 1.4 | 26 | | | I | | 1 | 1.2 |
| 27 28 | 1 | | ī | 1 | 3 | 1.2 | 27 | | | | 1 | | 1.1 |
| 28 | • • | | | | | 9 | 28 | 1 | | | | 1 | 10 |
| 29 | | | | 1 | I | () | 29 | | | | I . | 1 | () |
| 30 | | | | I | 1 | S | 30 | | | | | | 8 |
| 31 | • • | | 1 | 1 | 2 | 7 | 31 | | | | | | 8 |
| 32 | | • • | | 2 | 2 | 5 | 32 | I | | | | 1 | 8 |
| 33 | • • | | | | | .3 | 33 | | | | 4 | -1 | 7 |
| 34 | | • • | | I | 1 | 3 | 34 | | | | | | 3 |
| 35 | | | | | | 2 | 35 | | | | | | 3 |
| 36 | | • • • | | | | 2 | 36 | | | | 1 | 1 | 3 |
| 37 | | | | | | 2 | 37 | | | | 1 | 1 | 2 |
| 38 | | • • | | | | 2 | 38 | | | | | | í |
| 39 | • • | | 4 > | | | 2 | 39 | | . 1 | | 1 | 1 | 1 |
| 40 | | | | | | 2 | | | | | | | |
| 41 | | | | | | 2 | | | | | | | |
| 42 | • • | | | | | 2 | | | | | | | |
| 43 | 1 | | | 1 | 2 | 2 | | | | | | | |
| | 192 | 6 | 112 | 54 | 364 | 3190 | | 166 | 3 | 95 | 59 | 323 | 2987 |

TABLE I.—Continued.

AGE AT ENTRY 49 (Next Birthday.)

AGE AT ENTRY 50 (Next Birthday.)

| Years | N | UMB | ER OF | ENT | RANTS | 293 | Years | V | шмв | ER OF | ENT | RANTS | 2 83. |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 7 | | 7 | | | | | 7 | | 7 | |
| I | 1.2 | | 33 | 2 | 47 | 286 | I | 14 | 1 | 28 | 2 | 45 | 276 |
| 2 | 8 | | I 2 | 5 | 25 | 239 | 2 | 6 | | 18 | I I | 25 | 231 |
| 3 | 11 | | 13 | 3 | 27 | 214 | 3 | 4 | | 7 | 3 | 1.4 | 206 |
| 4 | 7 | | 7 | 1 | 15 | 187 | 4 | 11 | | 4 | | 15 | 192 |
| 4 5 6 | 9 | ι | 4 | 3 | 17 | 172 | 5 6 | 13 | | 7 | 3 | 23 | 177 |
| | 7 | | 8 | 3 | 18 | 155 | | 7 | | ı | 3 | 1.1 | 154 |
| 7 8 | 3 | 1 | 6 | 2 | I 2 | 137 | 7 | 5 | | 3 | 2 | 10 | 143 |
| 8 | S | | | 2 | 10 | 125 | 8 | 7 | | 2 | 2 | II | 133 |
| 9 | 4 | | 3 | 5 | I 2 | 115 | 9 | 9 | | | 2 | 11 | I 2 2 |
| ΙÓ | 5 | 3 | | 4 | 12 | 103 | 10 | 13 | I | I | 3 | 18 | 111 |
| 11 | 4 | | I | 3 | S | 91 | II | 7 | I | I | 2 | 11 | 93 |
| 12 | 6 | I | | 3 | 10 | 83 | 12 | 4 | | | 1 | 5 | 82 |
| 13 | 9 | | | 3 | I 2 | 7.3 | 13 | 6 | | 1 | 2 | 9 | 7.7 |
| 14 | - 5 | | T | 2 | 8 | 61 | 14 | 9 | | | 4 | 13 | 68 |
| 15 | 7 | | 2 | T | 10 | 53 | 15 | 5 | 1 | I | I | 8 | 55 |
| 16 | 5 | 2 | | 3 | 10 | 43 | 16 | 2 | | I | 1 | 4 | 47 |
| 17 | 3 | 1 | | | 4 | 33 | 17 | 2 | | 2 | | 4 | 43 |
| 18 | 3 | | 1 | 1 | 4 | 29 | 18 | 5 | | | 1 | 6 | 39 |
| 19 | 1 | | | ! | 1 | 25 | 19 | 5 | | | 4 | 9 | 33 |
| 20 | 2 | | | | 2 | 2.4 | 20 | 1 | | I | τ | 3 | 2.4 |
| 21 | | ' | | 5 | 5 | 2.2 | 21 | 2 | | | | 2 | 2 1 |
| 22 | 2 | | | ٠ | 2 | 17 | 2 2 | 5 | | | | 5 | 19 |
| 23 | 3 | | | | 3 | 15 | 23 | I | | | 2 | 3 | 1.4 |
| 24 | 1 | | | | 1 | 12 | 24 | I | | | | ĭ | TI |
| 25 | 2 | | | | 2 | 1 1 | 25 | | | | | | 10 |
| 26 | 3 | | | | 3 | 9 | 26 | | | | 1 | I | 10 |
| 27 | | | | | | 6 | 27 | | | | 2 | 2 | 9 |
| 28 | | | | | | 6 | 28 | | | | I | I | 7 |
| 29 | 1 | | | 2 | 3 | 6 | 29 | | | | 2 | 2 | 6 |
| 30 | | | | | | 3 | 30 | ī | | | 1 | 2 | 4 |
| 31 | | | | 1 | 1 | 3 | 31 | | | | | | 2 |
| 32 | | | | I | 1 | 2 | 32 | | | | | | 2 |
| 33 | | | | | | I | 33 | | | | I | I | 2 |
| 34 | | | | | | I | 34 | | 1 | | | | 1 |
| 35 | | | | 1 1 | | 1 | 35 | | | | | | 1 |
| 36 | | | | | | i | 36 | | | | | | I |
| 37 | | | | T | I | 1 | 37 | | | | | | I |
| | | | | 1 | | | 38 | | | | | | 1 |
| | | | | | | | 39 | | | | | | τ |
| | | | | | | | 40 | | | | | | ī |
| | | | | | | | 41 | | | | | | 1 |
| | | | | | | | 42 | | | | 1 | 1 | I |
| | 131 | 9 | 98 | 55 | 293 | 2365 | | 145 | 4 | 85 | 49 | 283 | 2432 |

TABLE 1.—Continued.

AGE AT ENTRY 51 (Next Birthday.)

AGE AT ENTRY 52 (Next Birthday)

| Yea | r | NUME | BER OF | ENT | RANTS | 203 | Years | j I | иимв | ER OF | ENT | RANTS | 5 175. |
|----------------------------|-----------|---------------|----------------|-------|--------|------------------------------|-----------|-----------|---------------|-----------------|-------|--------|------------------------------|
| Assurance | Existing. | Ma- tured. | With- drawn | Died. | Total. | Exposed to Risk of Death. | Assurance | Laisting. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | S | | 8 | | | | | 9 | | 9 |) |
| I | 1 1 | | 19 | 1 | 31 | 195 | 1 | 7 | | 25 | 1 | 32 | 166 |
| 2 | 6 | | 5 | | 11 | 164 | 2 | 3 | | 9 | 3 | 15 | 13.1 |
| | 3 | | 2 | | 5 | 153 | 3 | 4 | | 3 | I | 8 | 119 |
| 3 4 5 6 7 8 | 5 | | 2 | 2 | 9 | 148 | 4 | 5 | | 3 | 2 | 10 | 111 |
| 5 | 8 | | 3 | 1 | 1.2 | 139 | 5 | 6 | | 2 | | 8 | 101 |
| 6 | 7 | | 6 | 3 | 16 | 127 | 5 | I | , | 4 | 3 | 8 | 93 |
| 7 | () | | 2 | | 11 | 111 | 7 8 | 5 | | i | 1 | 7 | 85 |
| | S | | | 2 | C 1 | 100 | 8 | 3 | | 2 | | 5 | 78 |
| 9 | 3 | | | 2 | 5 | 90 | 9 | 6 | | | 2 | Š | 73 |
| 10 | 6 | I | 2 | 2 | 1.1 | 85 | 10 | f) | | 2 | 2 | 10 | 65 |
| ΙΙ | 5 8 | | | 3 | 8 | 7.4 | 11 | 4 | | 1 | | 5 | 55 |
| 12 | 8 | | | 2 | 10 | 66 | 12 | 7 | | | | 7 | 50 |
| 13 | 2 | | | , 3 | 5 | 56 | 13 | 6 | 1 | | | 7 | 43 |
| 14 | 7 | | I | 1 | 9 | 51 | 14 | 3 | | | I | 4 | 30 |
| 15 | 5 | | | 3 | S | 42 | 15 | 3 | | 1 | 1 | 5 | 32 |
| 16 | 1 | | | | 1 | 34 | 16 | 3 | | 1 | 5 | 9 | 27 |
| 17 | + | | | 1 | 5 | 33 | 17 | 3 | | | | 3 | 18 |
| 18 | .3 | | | 1 | 4 | 28 | 18 | 2 | | | | 2 | 1.5 |
| 19 | 3 | | | | 3 | 2.4 | 19 | | | | 1 | I | 1,3 |
| 20 | 2 | | I | | 3 | 2.1 | 20 | | | | | | 1.2 |
| 21 | -1 | | | | -‡ | 18 | 21 | 2 | | | 2 | 4 | 1.2 |
| 22 | 3 | | | I | -1 | I 1 | 22 | 3 | | | | 3 | - 5 |
| 23 | 1 | | | 2 | .3 | 1 0 | 23 | 1 | | | | 1 | 5 |
| 24 | | | | 1 | 1 | 7 | 24 | | | | | | -‡ |
| 25 26 | | | | .3 | 3 | 6 | 25 | 1 | | | 1 | 2 | -1 |
| 20 | | | | 4 | | 3 | 26 | | | | 1 | 1 | 2 |
| 27 | | | | | | 3 | 27 | | | | | | 1 |
| 28 | | | | 2 | 2 | 3 | 28 | | | | | | 1 |
| 29 | | | | | | 1 | 29 | | | | | | I |
| 30 | | | | | | I | 30 | | | | | | 1 |
| 31 | | | | 1 | 1 | 1 | 31 | | | | | | ſ |
| | | | | | | | 32 | | | | | | ţ |
| | | | | | | i | 33 | | | | | | I |
| | | | | | | | 34 | | | | | | t |
| | | | | | | | 35 | | | | | | I |
| | | | | | | | 36 | | | | 1 | 1 | 1 |
| | 114 | I | 51 | 37 | 203 | 1808 | | 84 | I | 63 | 27 | 175 | 1371 |

TABLE I.—Continued.

AGE AT ENTRY 53 (Next Birthday.)

AGE AT ENTRY 54 (Next Birthday.)

| Years | N | имві | ER OF | ENTI | RANTS | 149. | Years | N | UMB | ER OF | ENT | RANTS | 113. |
|-----------------|-----------|---------------|-----------------|------------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | 6 | | 6 | | | | | 2 | | 2 | |
| ı | I 2 | | 16 | | 28 | 143 | I | 7 | | 10 | | 17 | 111 |
| 2 | 6 | | 5 | 2 | 13 | 115 | 2 | 5 | | 1 | I | 7 | 94 |
| 3 | 2 | | 5 | 2 | 9 | 102 | 3 | 2 | | 2 | I | 5 | 87 |
| | 4 | | | 2 | 6 | 93 | 4 | 7 | | 2 | . | 9 | 82 |
| 4 5 6 | 4 | | 3 | 1 | 8 | 87 | 5 | 5 | | 6 | 2 | 13 | 73 |
| | 4 | | | 4 | 8 | 79 | 6 | 6 | | 3 | | 9 | 60 |
| 7 8 | 4 | | | 2 | 6 | 71 | 7 8 | 3 | | | I | 4 | 51 |
| 8 | 2 | | I | 1 | 4 | 65 | 8 | 3 | | | 2 | 5 | 47 |
| 9 | I | | 1 | I | 3 | 6 t | 9 | 1 | | | 1 | 2 | 42 |
| 10 | 3 | | | 2 | 5 | 58 | 10 | 2 | | I | | 3 | 40 |
| 11 | I | | 1 | 1 | 3 | 53 | II | 5 | | 1 | I | 7 | 37 |
| 12 | 2 | 1 | | ı | 4 | 50 | 12 | 5 | | • • | I | 6 | 30 |
| 13 | 8 | | ī | I | 10 | 46 | 13 | 5 | | | | 5 | 2.1 |
| 14 | 3 | | 3 | 2 | 8 | 36 | 14 | | | | | | 19 |
| 15 | I | | 1 | 1 | 3 | 28 | 15 | 4 | | | | 4 | 19 |
| 16 | 1 | | ī | | 2 | 25 | 16 | | | | 1 | 1 | 15 |
| 17 | 3 | | | | 3 | 23 | 17 | | | | 2 | 2 | 1.4 |
| 18 | | | | | | 20 | 18 | | | | | | 12 |
| 19 | 1 | | 1 | | 2 | 20 | 19 | 2 | | | | 2 | 12 |
| 20 | 2 | | | 2 | 4 | 18 | 20 | I | | | | I | 10 |
| 21 | 2 | | I | I | 4 | 14 | 21 | | | • • | I | I | 9 |
| 22 | I | | | I | 2 | 10 | 22 | | | • • | | | 8 |
| 2 3 | 3 | | | 1 | 4 | 8 | 23 | I | | | 1 | 2 | 8 |
| 24 | | | | | | 4 | 24 | | | | | | 6 |
| 25 | | | | 2 | 2 | 4 | 25 | • • | | • • | | | 6 |
| 26 | | | | | | 2 | 26 | 1 | | | | I | 6 |
| 27 | | | | | | 2 | 27 | | | I | 2 | 3 | 5 |
| 28 | | | ٠. | | | 2 | 2 8 | | | | | | 2 |
| 29 | | | | | | 2 | 29 | | | | • • | | 2 |
| 30 | 1 | | | I | 2 | 2 | 30 | | | • • | 1 | 1 | 2 |
| | | | | | | | 3 1 | • • | | • • | | | I |
| | | | | | | | 32 | | | • • | | | ı |
| | | | | | | | 33 | | • • | • • | | | 1 |
| | | | | | | | 34 | • • | | •• | I | I | I |
| | 71 | I | 46 | 3 I | 149 | 1243 | | 65 | 0 | 29 | 19 | 113 | 937 |

TABLE I. Continued.

AGE AT ENTRY 55 (Next Birthday

AGE AT ENTRY 56 (Next Bereda

| Years | 1 | NUME | BER O | F ENT | RANT | S 131 | Years | | NUME | BER OF | ENT | RANTS | s 8o |
|--|---------------------------------------|--------------|-----------------|-------------|---|---|--|--|--------------|-----------------|-------------------------|--|---|
| of Assurance | Existing. | Ma- tured | With- drawn. | Died | Lutal. | Expessed to Risk of Death. | Assurance | Existing | Ma- tured | With- drawn, | lited, | Total | Expessed to Risk of Death. |
| 1 2 3 4 5 6 7 8 9 10 | 9 3 7 11 7 3 5 3 | 1 | 2 10 6 5 | 1 1 1 2 4 4 | 2 19 11 13 12 11 8 5 | 129 110 99 86 74 63 55 50 | 1 2 3 4 5 6 7 8 | 2 4 3 3 2 1 3 6 | | 8 3 3 | 1 1 1 1 1 1 1 1 1 1 1 2 | 1 11 8 7 3 4 3 3 7 | 79 68 60 53 50 46 43 40 33 |
| 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 20 | 3 3 2 | I | 1 | 1 | 9 4 6 4 1 1 2 2 1 1 1 1 3 | 36 27 23 17 13 12 11 0 7 6 5 5 | 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 2 2 2 2 2 2 2 2 1 1 | | | 1 2 | 3 4 2 2 2 2 6 1 2 1 | 30 37 23 21 19 15 0 7 5 3 2 1 |
| 27 28 | 66 | 3 | 35 | · 27 | 131 | 893 | | 4.1 | 0 | 18 | 18 | 80 | ó <u>5</u> 8 |

TABLE 1. -Continued.

AGE AT ENTRY 57 (Next Birthday.)

AGE AT ENTRY 58 (Next Birthday.)

| Years | | NUME | BER O | F ENI | RANT | s 74 | Years | | NUM | BER O | F EN | TRANT | s 61. |
|-----------------|-----------|---------------|-----------------|-------|--------|-----------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died | Total. | Exposed to Risk of Death | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | lotal. | Exposed to Risk of Death. |
| | | | I | | 1 | | | | | 1 | | I | |
| 1 | 6 | | 7 | | 13 | 7.3 | 1 | 5 | | 6 | 1 | 12 | 60 |
| 2 | 3 | | 2 | | 5 | 60 | 2 | 3 | | 1 | 1 | 5 | 48 |
| 3 | 3 | | 2 | 2 : | 7 | 55 | 3 | | | I | | I | 43 |
| 4 | 3 | | | | 3 | 48 | 4 | 1 | | | I | 2 | 42 |
| 4 5 6 | 2 | : | 2 | I | 5 | 45 | 4 5 6 | 2 | | 1 | | 3 | 40 |
| | 1 | | | | 1 | 40 | | 4 | | | | 4 | 37 |
| 7 8 | I | ! | 1 | | 2 | 39 | 7 8 | 2 | | | 4 | 2 | 33 |
| 8 | 3 | | | τ | 4 | 37 | 8 | 4 | | | 2 | 6 | 31 |
| 9 | I | | | | 1 | 33 | 9 | 1 | | | 2 | 3 | 25 |
| IO | 1 | | 3 | 1 | 5 | 32 | 10 | 3 | | | 2 | 5 | 2 2 |
| II | 3 | | | 1 | 3 | 27 | 11 | 1 | | 1 | I | 3 | 17 |
| 12 | I | | | 2 | 3 | 24 | 12 | 1 | | | | 1 | 14 |
| 13 | 1 | | 1 | | 2 | 2 I | 13 | | | | | | 13 |
| 14 | 1 | | | 2 | 3 | 19 | 14 | 2 | | | | 2 | 13 |
| 15 | | | | | | 16 | 15 | 1 | | | I | 2 | TI |
| 16 | I | 1 | | 3 | 4 | 16 | 16 | 1 | | | | I | 9 |
| 17 | I | | | | I | I 2 | 17 | I | | | 3 | 4 | 8 |
| 18 | 3 | ' | | | 3 | 1.1 | 18 | | | | | | 4 |
| 19 | | | | | | 8 | 19 | | | | | | 4 |
| 20 | 2 | | 1 | 1 | 4 | S | 20 | 2 | | | | 2 | 4 |
| 21 | 1 | | | | I | 4 | 21 | 1 | | | | 1 | 2 |
| 22 | 1 | | | 1 | 2 | 3 | 22 | | | | | | 1 |
| 23 | | | | | - | 1 | 23 | | | | | | I |
| 24 | | . 1 | | | | I | 24 | | | | | | I |
| 25 26 | | | | | | I | 25 | | | | | | I |
| 26 | | | | 1 | 1 | 1 | 26 | | | | | | I |
| | | | | | | | 27 | • • | | • • • | I | 1 | 1 |
| | 39 | 0 | 20 | 15 | 74 | 635 | | 35 | 0 | II | 15 | 61 | 486 |

TABLE 1. -Continued.

AGE AT ENTRY 59 (Next Birthday) AGE AT ENTRY 60 (Next Birth.ay)

| Year- | ı | NUMB | ER OF | ENT | RANTS | 5 53 | Years of | | NUME | BER O | F ENT | RANTS | s 46. |
|---|----------|---------------|-------------------|------------------------------------|--|--|--|---|--------------|-----------------|-----------|--|--|
| As trance | Existing | Ma- tice l | With- drawii. | Die | I e tal. | Exp. sed to Risk of Death | Assurante | Existing. | Ma- tured | With- diawn. | Ine i. | 1 tal. | Paper to End of Lean |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 1 2 1 | | 2 7 3 1 2 2 1 t t | 3 1 1 2 1 1 | 2 11 0 3 5 2 2 3 1 4 3 2 1 | 51 40 31 28 23 21 21 10 16 15 15 11 11 8 6 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | 3 4 1 1 3 1 2 2 1 2 2 1 2 1 1 1 1 1 1 1 1 1 | | 3 | 1 1 3 3 1 | 9 6 2 4 5 1 4 3 2 3 3 3 | 46 37 31 29 25 20 20 19 15 15 14 11 |
| 2.4 | 22 | · 0 | 17 | 14 | 53 | 340 | | 23 | 0 | 13 | 10 | 46 | 307 |

TABLE I.—Continued.

AGE AT ENTRY 61 (Next Birthday.)

AGE AT ENTRY 62 (Next Birthday.)

| Years | | NUM | BER O | F ENT | TRANT: | S 2I. | Years | | NUME | BER O | FENT | FRANT: | s 18. |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn, | Died. | Total. | Exposed to Risk of Death. |
| | | | | | | | | | | 1 | | 1 | |
| I | | I | 2 | | 3 | 21 | I | 2 | | 2 | . | 4 | 1.7 |
| 2 | I | | I | 1 | 3 | 18 | 2 | | | | I | 1 | 13 |
| 3 | | | | | | 15 | 3 | | | | | | 1.2 |
| 4 5 6 | | | | | | 15 | 4 5 6 | 1 | | | | 1 | 12 |
| 5 | | | | I | I | 15 | 5 | | | 2 | | 2 | 11 |
| | | | 1 | | 1 | 14 | | 1 | | | 2 | 3 | 9 |
| 7 | 1 | | 1 | | 2 | 13 | 7 8 | | | | | | 6 |
| | | | I | | 1 | 11 | | | | | | | 6 |
| 9 | I | | | | 1 | 10 | 9 | | | | | | 6 |
| 10 | | i | I | | I | 9 | 10 | | | | 1 | i | 6 |
| II | I | | | | 1 | 8 | II | 2 | | | | 2 | 5 |
| 12 | 1 | | | | J | 7 | 12 | 2 | | | | 2 | 3 |
| 13 | 1 | | | | I | 6 | 13 | | | | | | 1 |
| 14 | 1 | | | | 1 | 5 | 14 | | | | | | I |
| 15 | | | | | | 4 | 15 | | | | | | 1 |
| 16 | | | | 1 | I | 4 | 16 | | | | | | 1 |
| 17 | | | | | | 3 | 17 | | | | | | 1 |
| 18 | | | | | | 3 | 18 | | | | | | ı |
| 19 | | | | 1 | I | 3 | 19 | | | | | | 1 |
| 20 | J | | | | I | 2 | 20 | | | | 1 | I | 1 |
| 21 | | | | . | | I | | | | | i II | | i. |
| 22 | | | | | | I | | | ; | | | | |
| 2 3 | | | | | | I | | | | | 1 | | |
| 24 | | | | | | 1 | | | | | | | |
| 25 | | | | | | I | | | | | | | |
| 26 | | | | | | ī | 1 | | | | 1 | | |
| 27 | | | | | | 1 | 1 | | | | | | |
| 28 | | | | | | I | | | | | | | |
| 29 | | ! | | | - 1 | I | | | | | | | |
| 3ó | | | | | | 1 | | | | | | | |
| 31 | | | | | | 1 | | | | | | | |
| 32 | | | | | | ī | | | | | | | |
| 33 | | | | | | 1 | | | | | | | |
| 34 | | ' | | | | 1 | | | | | | | |
| 35 | | | | | | 1 | | | | | | | |
| 34 35 36 | | | | 1 | | I | | | | | | | |
| 37 | | | | 1 | I | | | | 1 | | | | |
| | 8 | I | 7 | 5 | 21 | 203 | | 8 | 0 | 5 | 5 | 18 | 114 |

TABLE I. Continued.

AGE AT ENTRY 63 (Next Birthday)

AGE AT ENTRY 64 (Next Birthdry)

| Vears | | NUME | BER O | F ENT | rant: | S 14. | Years | ١ | NUMB | ER OF | ENT | RANTS | 18. |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| | | | • • | | ι | | | | | | | | |
| r | 2 | | 1 | | 3 | 1,3 | I | 3 | | 2 | I | 6 | 18 |
| 2 | | | ī | | | 10 | 2 | 1 | | | | I | 1 2 |
| 3 | | | | 1 | ī | 10 | 3 | 2 | | | | 2 | 11 |
| 4 | | | | | | 9 | | 4 | | | | 4 | 9 |
| 4 5 6 | 2 | | | | 2 | 9 | 4 5 6 | ī | | | | 1 | 5 |
| 6 | ī | | | 1 | 2 | 7 | | 2 | | | | 2 | 4 |
| 7 8 | 1 | | | | 1 | 5 | 7 | 1 | | | 1 | 2 | 2 |
| 8 | ī | | | | I | .4 | | | | | | | |
| 9 10 | | | | | | 3 | | | | | | | |
| | | | | | | 3 | | | | | | | |
| II | | | | I | 1 | 3 | | | | | | | |
| 12 | | | | 1 | 1 | 2 | | | | | | | |
| 13 | | | | | | I | | | | | | | |
| 14 | | | | | | 1 | | | | | | | |
| 14 15 16 | | | | | | į t | | | | | | | |
| 16 | | | | | | 1 | 1 | | | | | | |
| 17 18 | | | | | | 1 | | | | | | | |
| 18 | | | | | | 1 | | | | | | | |
| 19 | | | | | | 1 | | | | | | | |
| 20 | | | | | | 1 | | | | | | | |
| 21 | | | | | | 1 | | | | | | | |
| 22 | | | | | | ī | | | | | | | |
| 23 | | | | | | 1 | | | | | | | |
| 24 | | | | 1 | 1 | I | | | | | | | |
| | 7 | 0 | 2 | 5 | 14 | 90 | | 14 | o | 2 | 2 | 18 | ÓΙ |

TABLE 1.—Continued.

AGE AT ENTRY 65 (Next Birthday.)

AGE AT ENTRY 66 (Next Birthday.)

| Years | | NUME | BER OF | ENT | RANT | S 20. | Years | NUMBER OF ENTRANTS 8. | | | | | |
|-----------------|-----------|---------------|-----------------|------|--------|------------------------------|-----------------|-----------------------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn- | Died | Total. | Exposed to Risk of Death. | of Assurance | Existing | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| ı | | | | | 2 | 20 | I | · . I | | I | | | 8 |
| 2 | | | I | ı | 2 | 18 | 2 | | | | | | 6 |
| 3 | | | 2 | | 2 | 16 | 3 | I | | | | I | 6 |
| | 2 | | | | 2 | 14 | 4 | | | | ı | I | 5 |
| 4 5 6 | ī | | I | | 2 | I 2 | 5 6 | | | | | | 4 |
| | I | | | | I | 10 | | I | 1 | | | 1 | 4 |
| 7 8 | I | | | τ | 2 | 9 | 7 8 | | | | | | 3 |
| | | | | | | 7 | | | | I | | I | 3 |
| 9 | I | | | I | 2 | 7 | 9 | | | | 1 | | 2 |
| 10 | | | | I | ī | 5 | 10 | | | | | | 2 |
| II | | | | | | 4 | II | | 1 | | | | 2 |
| 12 | | | | 3 | 3 | 4 | 12 | | | I | 1 | I | 2 |
| 13 | | | ٠ | | | 1 | 13 | | | | 1 | I | ī |
| 14 | | | | | | I | | | | | | | 1 |
| 15 | | | | | | I | | | | | | | 1 |
| 16 | | | | | 1 1 | I | | | | | | | |
| 17 | ī | | | | I | 1 | | 1 | 1 | 1 | | | |
| | 8 | 0 | 4 | 8 | 20 | 131 | | 3 | 0 | 3 | 2 | 8 | 48 |

TABLE I.—Continued.

AGE AT ENTRY 67 (Next Birthday.)

AGE AT ENTRY 68 (Next Birthday.)

| Vears | | NUME | BER O | EN. | TRANTS | 5 5. | Years | İ | NUME | BER O | OF ENTRANTS 5 | | | |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------|---------------|-----------------|---------------|--------|------------------------------|--|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | |
| | | | ī | 1 | ı | | | | | | | | | |
| I | | | | | | 4 | I | | | | | | 5 | |
| 2 | I | | ī | | 2 | 4 | 2 | | | ı | | ł | 5 | |
| 3 | | | | | | 2 | 3 | 1 | | | | ī | 4 | |
| 4 | | | | I | 1 | 2 | 4 | | | | | | 3 | |
| 5 | | i | | | | I | 5 | | | | I I | 1 | 3 | |
| 6 | | | | | | I | 6 | ī | | | | 1 | 2 | |
| 7 | 1 | | | | I | I | 7 | | | | | | I | |
| 1 | | | | | | | 8 | | | | | | I | |
| | | | | | | | 9 | | | | | | 1 | |
| | | | | | | | 10 | | | | | | I | |
| | | | | | | | II | | | | | | f | |
| | | | | | | | 12 | | | | I | I | 1 | |
| | 2 | 0 | 2 | I | 5 | 15 | | 2 | 0 | I | 2 | 5 | 28 | |

TABLE I.—Continued.

AGE AT ENTRY 69 (Next Birthday.)

AGE AT ENTRY 70 (Next Birthday.)

| Years of | | мим | BER O | F EN | TRANT | s I. | Years | NUMBER OF ENTRANTS O. | | | | | |
|-------------|-----------|---------------|-----------------|-------|--------|------------------------------|-----------------|-----------------------|---------------|-----------------|-------|--------|------------------------------|
| Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. | of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death, |
| | | | | | | | | | | | | | |
| 2 | | | | | | I I | | | | | | | |
| 3 4 | | | | | • • | I I | | | | | | | |
| 5 | | | | | • • | I | | | | | | | |
| 7 | | | | I | - | I | | | | | | | |
| <u> </u> | 0 | 0 | 0 | I | I | 7 | ĺ | | | | | | |

AGE AT ENTRY 71 (Next Birthday.)

| Years | | NU | MBER | OF E | NTRAN | NTS I. |
|-----------------|-----------|---------------|-----------------|-------|--------|------------------------------|
| of Assurance | Existing. | Ma- tured. | With- drawn. | Died. | Total. | Exposed to Risk of Death. |
| I | | | | i . | | ı |
| | o | 0 | 0 | I | I | I |

TABLE II.
SUMMARY OF OBSERVATIONS.

| | | U | timate Disposal | of 1 atran | ts into | | | τ - | Ð, | <i>i</i> 1. – . | . 10 |
|--|---------------------|----------|------------------------|--|------------|---------------------------------------|-------------------------|-------|--------------------------------|---|----------|
| Age at Futry, (Next Birthday) | Number of Intracts. | Died. | Matured and Withdrawn. | With- drawn within first ix menths | Existing | Age at Futry. (Next Buthday) | Number of Latrant | Luci. | M, tu ed stal Withdraw n | With- drawn within first six in 14h | Lyiefey, |
| 15 | 5 | | -1 | | 1 | 45 | 486 | 81 | 134 | 1.‡ | 257 |
| 16 | 1.‡ | 1 | 5 | | 8 | 46 | 386 | 44 | 127 | 9 | 200 |
| 17 | 37 | 2 | 10 | | 25 | 47 | 364 | 5 ‡ | 110 | 8 | 102 |
| 18 | 0.2 | () | 2.4 | 2 | 60 | 48 | 323 | 50 | 0.2 | 6 | 166 |
| 19 | 227 | 8 | 51 | 1.1 | 157 | 49 | 203 | 5.5 | 100 | 7 | 131 |
| 20 | 5C.1 | 17 | 136 | 23 | 328 | 50 | 283 | .10 | 82 | 7 | 145 |
| 21 | 1503 | 7.5 | 486 | 47 | 895 | 51 | 203 | 37 | 4.1 | 8 | 114 |
| 22 | 1508 | 69 | 515 | 68 | 856 | 52 | 175 | 27 | 5.5 | 9 | 84 |
| 23 | 1708 | 83 | 583 | 7.2 | 970 | 53 | 149 | 31 | 41 | () | 7.1 |
| 24 | 1725 | 93 | 593 | 66 | 973 | 54 | 113 | 10 | 2 7 | 2 | 65 |
| 25 | 1705 | So | 607 | 67 | 1011 | 55 | 131 | 27 | 36 | 2 | 66 |
| 26 | 1730 | 0.2 | 637 | 5.5 | 946 | 56 | So | 18 | 1.7 | 1 | 44 |
| | 1762 | 88 | 60S | 7.5 | 991 | 57 | 7.4 | 15 | 10 | 1 | 39 |
| 27 28 | 1738 | 105 | 585 | 63 | 985 | 58 | 61 | 1.5 | 10 | I | 35 |
| 29 | 1055 | 113 | 542 | 57 | 943 | 59 | 5.3 | 1.1 | 15 | 2 | 2.2 |
| 30 | 1587 | 108 | 557 | 50 | 872 | 60 | 46 | 10 | 1.3 | | 2,3 |
| 31 | 1619 | 95 | 575 | 6.1 | 885 | 61 | 21 | 5 | 8 | | S |
| 32 | 1516 | 105 | 524 | 63 | 824 | 62 | 18 | 5 | -‡ | 1 | 8 |
| 33 | 1378 | 114 | 507 | 50 | 707 | 63 | 1.4 | 5 | 1 | 1 | 7 |
| 34 | 1278 | 118 | 453 | 40 | 667 | 64 | 18 | 2 | 2 | | 1.1 |
| 35 | 1231 | 101 | 440 | 41 | 6.19 | 65 | 20 | 8 | .; | | 8 |
| 36 36 | 1145 | 97 | 307 | 4 6 | 605 | 66 | 8 | 2 | 3 | | 3 |
| 37 | 1077 | 97 | 366 | 33 | 583 | 67 | 5 | 1 | I | 1 | 2 |
| 37 38 | 000 | 82 | 337 | 40 | 531 | 68 | 5 | 2 | 1 | | 2 |
| 39 | 860 | 95 | 268 | 27 | 470 | 69 | 1 | I | , , | | ٠ |
| 40 | 815 | -6 | 252 | 2.2 | 16.3 | 70 | | | | | |
| 40 41 | 245 | 76 82 | 253 256 | 2.3 1.0 | 463 383 | 71 | | 1 | | | |
| 41 | 656 | 72 | 256 | 2.4 | | / * | | • | | | |
| 43 | 500 | 7.4 | 103 | 15 | 354 308 | | | | | | |
| 43 | 501 | 50 | 174 | 1.4 | 257 | Γ⊕1.\f | 35.287 | 2 789 | 11.838 | 1.241 | 19419 |

TABLE III.

Part 1.—Unadjusted Exposures and Deaths for ages to be attained next birthday.

Part 2.—Exposures and Deaths for completed ages, with radix of 10,000 at age 20. Unadjusted.

| | | PAR | RT I. | | | | | PAR | T 2. | | |
|----------------------------------|--|-----------------------------------|----------------------------------|----------------------------|--------------------------|----------------------------|--|------------------------------------|----------------------------|----------------------------------|------------------------------|
| Age next Birthday | E_{xposed} $E_{x^{-1}\hat{s}}$ | $Died \\ d_{x=x_3'}$ | Age n xt Birthday x | $E_{x_{-1}_3}$ | $Died \\ d_{x-1/3}$ | Completed Age | Expised E _x | Died d _x | Completed Age | Exposed E _x | Died d _x |
| 15 16 17 18 | 5 19 52 126 | •• | 57 58 59 | 3.341 3,023 2,740 | 54 54 65 | 20 21 22 23 | 10,000 9,947 9,914 9,859 | 53 33 55 44 | 60 61 62 63 | 7,064 6,887 6,713 6,515 | 177 174 198 |
| 19 20 | 318 726 | 5 | 60 61 62 | 2,378 2,094 1,861 | 61 50 52 | 24 25 | 9,815 9,763 | 52 58 | 64 65 | 6,321 6,153 | 168 |
| 2I 22 23 24 | 2,026 3,075 4,181 5,151 | 4 19 18 25 | 63 64 65 | 1,655 1.461 1,282 | 54 35 41 | 26 27 28 29 | 9,7°5 9,651 9,6°8 9.565 | 54 43 43 48 | 66 67 68 69 | 5,949 5,732 5,512 5,283 | 217 220 229 231 |
| 25 25 27 | 6,042 6,809 7.515 | 36 41 34 | 66 67 68 69 | 1,120 953 827 692 | 36 33 31 | 30 31 32 | 9,517 9,466 9,421 | 51 45 45 | 70 71 72 | 5,052 4,831 4,555 | 221 276 333 |
| 28 29 30 | 8,215 8,785 9,274 | 36 42 51 | 70 71 72 | 600 519 435 | 25 25 33 | 33 34 35 | 9,376 9.322 9,251 | 54 61 59 | 73 74 75 | 4,222 3,948 3,655 | 274 293 291 |
| 31 32 33 34 | 9,736 10,068 10 287 10,446 | 48 46 53 72 | 73 74 75 | 359 287 239 | 23 20 | 36 37 38 39 | 9,202 9,141 9,090 9,036 | 61 51 54 63 | 76 77 78 79 | 3 364 3.108 2,775 2.365 | 256 333 410 343 |
| 35 36 37 38 | 10,530 10,500 10,404 10,244 | 63 75 56 61 | 76 77 78 79 | 196 163 124 89 | 1.4 1.4 1.9 1.2 | 40 41 42 43 | 8,973 8,902 8,844 8,791 | 71 58 53 65 | 80 81 82 83 | 2,022 1,694 1,423 1,150 | 328 266 278 249 |
| 39 40 41 42 43 | 9,802 9,53‡ 9,201 8,864 | 82 68 49 64 | 80 81 82 83 84 | 65 48 33 22 16 | 7 6 5 3 | 44 45 46 47 48 | 8,726 8,659 8,587 8,500 8,421 | 67 72 78 88 83 | 84 85 86 87 88 | 759 663 504 398 | 96 159 106 27 88 |
| 44 45 46 47 48 49 | 8,425 8,002 7,602 7,103 6 800 6,378 | 6.4 65 64 75 70 58 | 86 87 88 89 | 9 7 5 5 | 2 2 I | 50 51 52 53 54 | 8,333 8,259 8,170 8,076 7,985 7,872 | 79 89 94 91 113 127 | 90 91 92 93 94 | 283 177 106 106 | 106 |
| 50 51 52 53 54 | 5,992 5,553 5,134 4,751 4,358 | 61 66 55 60 74 | 91 92 93 94 95 96 | 2 1 1 1 1 1 1 1 1 | | 55 56 57 58 59 | 7,745 7,631 7,512 7,386 7,240 | 114 119 126 146 176 | 95 96 97 | 106 106 71 | 35 71 |
| 55 56 | 4,002 3,665 | 58 56 | 97 Тотаг, | 296 481 | 2,789 | | | | | | |

TABLE IV.

GRADUATED MORTALITY TABLE.

GENERAL EXPERIENCE.

| $A_{\mathcal{G}}e$ | Number Living. | Number Dying. | Probability of Living a Year. | Probability of Dying in a Year, | Complete Expectation of Life. |
|--------------------|------------------|----------------|-------------------------------|------------------------------------|-------------------------------|
| | / _t | <i>d</i> , | ^ t | 1, | ٠, |
| 20 | 100,000 | 463 | .995373 | .004627 | 16.240 |
| 21 | 99.537 | 464 | 995335 | .004665 | 46.240 |
| 22 | 99,073 | 466 | .995294 | .004706 | 45.462 44.673 |
| 23 | 08,657 | 460 | .095248 | .004752 | 43.881 |
| 24 | 98,138 | 471 | .995197 | .004803 | 43.089 |
| | 97,667 | | | .004858 | |
| 25 26 | 97,102 | 475 478 | .995142 .995080 | | 42.204 |
| 20 27 | 96.714 | .482 | .995013 | .004920 .004987 | 41.498 |
| 28 28 | 96,232 | 487 | .994938 | .005062 | 40.701 |
| 29 | 95.745 | 493 | .994856 | .0051.44 | 39.902 39.103 |
| | | | | | |
| 30 | 05,252 | 199 | .994765 | .005235 | 38.303 |
| 31 | 94-753 | 5°5 | .994665 | .005335 | 37.502 |
| 32 | 04,248 | 513 | .094555 | .005445 | 36.700 |
| 33 34 | 93-735 93-213 | 5 2 2 5 3 2 | -9944 33 -994298 | .005567 | 35.898 |
| | | | | | 35.096 |
| 35 | 92,681 | 5.4.2 | .994150 | .005850 | 34.298 |
| 36 | 92,139 | 554 | .993987 | .000013 | 33 494 |
| 37 | 91.585 | 567 | .993807 | .006193 | 32.693 |
| 38 | 91.018 | 582 | .993609 | .006391 | 31.804 |
| 39 | 92,436 | 597 | .993390 | .006610 | 31.096 |
| 40 | 89.839 | 616 | .993148 | .006852 | 30.299 |
| 4 I | 89.223 | 635 | .992882 | .007118 | 29.505 |
| 42 | 88 588 | 657 | .992590 | .007410 | 28.713 |
| 43 | 87.931 | 680 | .992265 | .007735 | 27.92. |
| 44 | 87.251 | 706 | .991909 | .008091 | 27.137 |
| 45 | 86,545 | 734 | .991516 | .008484 | 26.355 |
| 46 | 85,811 | 765 | .991082 | .008018 | 25 576 |
| 47 48 | 85 046 | 799 | .990604 | .009396 | 24.851 |
| 48 | 84,247 | 836 | .990078 | .009922 | 24.032 |
| 49 | 83,411 | 876 | .989497 | .510503 | 23.208 |
| 50 | 82,535 | 920 | .988857 | .011143 | 22 509 |
| 51 | 81,615 | 967 | .988151 | .011849 | 21.757 |
| 52 | 85,648 | 1,018 | .987374 | .012626 | 21.012 |
| 53 | 79,630 | 1,074 | .986518 | .013482 | 20.275 |
| 54 | 78,556 | 1,133 | .985574 | .01.1126 | 19.545 |
| 55 | 77,423 | 1,198 | .984534 | .015466 | 18.824 |
| 56 | 76,225 | 1,266 | .983388 | .016612 | 18.112 |
| 57 | 74.050 | 1,340 | .982126 | .017874 | 17 400 |
| 58 | 73,610 | 1,418 | .0307.36 | .019264 | 16.717 |
| 59 | 72,201 | 1,501 | .979208 | .020792 | 16.c35 |
| 60 | 70.700 | 1,500 | .977520 | .022120 | |
| 61 | 00,110 | 1,682 | .075664 | .021336 | 15.305 14.707 |
| 62 | 67,428 | 1,778 | .073622 | .026378 | 14.001 |
| | 17177 | 11/11 | | .0.29370 | 14.001 |

TABLE IV.—Continued.

GRADUATED MORTALITY TABLE.

GENERAL EXPERIENCE.

| 63 65,650 1,880 .971374 .028626 13,429 64 63,770 1,983 .968901 .031099 12,810 65 61,787 2,089 .964189 .033819 12,205 60 50,698 2,198 .964189 .036811 11,615 67 57,500 2,366 .959901 .010099 11,039 68 55,194 2,412 .950287 .043713 10-483 69 52,782 2,517 .952318 .047682 9,936 70 50,265 2,616 .947959 .052041 9,408 71 47,649 2,770 .943175 .056825 8.897 72 44,942 2,790 .937926 .02074 8.403 73 42,152 2,859 .932172 .067828 .9926 74 30,293 2,913 .925866 .074134 7,467 75 36,380 2,948 .918959 .05141 | Age. | Number Living. | Number Dying. | Probability of Living a Year. | Frobability of Dying in a Year. | Complete Expectation of Life. |
|--|------------|-----------------------|-----------------|-------------------------------|------------------------------------|-------------------------------|
| 64 63,770 1,983 .968901 .031009 12,810 65 61,787 2,089 .966181 .033810 12,205 66 39,698 2,198 .963189 .036811 11,615 67 57,500 2,366 .959901 .010099 11,039 68 55,194 2,412 .956287 .043713 10,483 69 52,782 2,517 .952318 .047682 9.936 70 50,265 2,616 .947959 .052041 9.408 71 47,649 2,707 .943175 .056825 8.897 72 44,942 2,790 .937926 .062074 8.403 73 42,152 2,859 .932172 .067828 7.926 74 39,293 2,913 .925866 .074134 7.467 75 36,380 2,948 .918959 .081041 7.027 76 33,432 2,962 .99140 .096860 | | <i>l</i> _x | d _{.v} | <i>†</i> , | q_x | c _x |
| 65 61,787 2,089 .066181 .033819 12.205 66 59,698 2.198 .963189 .36811 11.615 67 37,500 2.366 .959901 .010099 11.039 68 55,194 2,412 .956287 .043713 10.485 69 52,782 2,517 .952318 .047682 9.936 70 50.265 2,616 .947959 .052041 9.408 71 47.649 2,707 .943175 .056825 8.897 72 44.942 2,790 .937926 .062074 8.403 73 42.152 2,859 .932172 .067828 7.926 74 39.293 2,913 .925866 .074134 7.467 75 36.380 2,948 .918959 .081041 7.025 76 33.432 2,962 .911402 .088598 6.600 77 30.470 2,952 .903140 .096860 | | | | | | |
| 66 59,698 2.198 .96,3189 .c36811 11.615 67 57,500 2.306 .959901 .010099 11.039 68 55,194 2.412 .956287 .043713 10.483 69 52,782 2.517 .952318 .047682 9.936 70 56,265 2.616 .947959 .052041 9.408 71 47,649 2.709 .937926 .052074 8.403 72 44.942 2.790 .937926 .052074 8.403 73 42.152 2.8599 .932172 .067828 7.926 74 39.293 2.913 .925866 .074134 7.467 75 36.380 2.948 .918959 .051041 7.025 76 33.432 2.962 .911402 .088598 6.600 77 39.470 2.952 .903140 .096860 6.193 78 27,518 2.913 .894115 .105885 | 64 | 63,770 | 1,983 | .968901 | .031099 | 12.810 |
| 67 57,500 2,506 .059901 .010099 11.039 68 55,194 2,412 .956287 .043713 10.485 69 52,782 2,517 .952318 .047682 9.936 70 50,265 2,616 .947959 .052041 9.408 71 47,649 2,707 .943175 .056825 8.897 72 44,942 2,790 .937926 .062074 8.403 73 42,152 2,859 .932172 .067828 7.926 74 39.293 2,913 .925866 .074134 7.467 75 36,380 2,948 .918559 .081041 7.025 76 33.412 2,962 .911402 .088508 6.600 77 30,470 2,952 .993140 .068860 6.193 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 | 65 | | 2,089 | .966181 | .033819 | 12.205 |
| 68 55,104 2,412 .956287 .043713 10.483 69 52,782 2,517 .952318 .047682 9.936 70 50,265 2,616 .947959 .052041 9.408 71 47,649 2,707 .943175 .056825 8.897 72 44,942 2,799 .937926 .062074 8.403 73 42,152 2,859 .932172 .067828 7.926 74 39,293 2,913 .925866 .074134 7.467 75 36,380 2,948 .918959 .081041 7.025 70 33,432 2,962 .9911402 .088508 6.600 77 30,470 2,952 .993140 .096860 6.193 78 27,518 2,913 .804115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 | 66 | | | .963189 | | |
| 69 52,782 2,517 .952318 .047682 9,936 70 50,265 2,616 .947959 .052041 9,408 71 47,649 2,707 .943175 .056825 8,807 72 44,942 2,790 .937926 .062074 8,403 73 42,152 2,859 .932172 .067828 7,926 74 39,293 2,913 .925866 .074134 7,467 75 36,380 2,948 .918959 .081041 7,025 76 33,432 2,962 .9911402 .088598 6,600 77 30,470 2,952 .993140 .096860 6,193 78 27,518 2,913 .894115 .105885 5,804 79 24,605 2,848 .884266 .115734 5,431 80 21,757 2,752 .873529 .126471 5,077 81 19,005 2,625 .861839 .138161 < | 67 | | | | | |
| 70 50,265 2,616 .947959 .052041 9,408 71 47,649 2,707 .943175 .056825 8.897 72 44,942 2,799 .937926 .062074 8.403 73 42,152 2,859 .932172 .067828 7.926 74 39.293 2,913 .925866 .074134 7.467 75 36,380 2,948 .918959 .081041 7.025 76 33,432 2,962 .911402 .088598 6.600 77 30,470 2,952 .993140 .096860 6.193 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 <t< td=""><td></td><td></td><td></td><td></td><td>.043713</td><td></td></t<> | | | | | .043713 | |
| 71 47,649 2,707 .043175 .056825 8.897 72 44,942 2,790 .037926 .062074 8.403 73 42,152 2,859 .932172 .067828 7.926 74 39,293 2,913 .925866 .074134 7.467 75 36,380 2,948 .918959 .081041 7.025 70 33,432 2,962 .991402 .088598 6.600 77 30,470 2,952 .993140 .06860 6.103 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .104676 <td< td=""><td>09</td><td>52,782</td><td>2,517</td><td>.952318</td><td>.047682</td><td>9.936</td></td<> | 09 | 52,782 | 2,517 | .952318 | .047682 | 9.936 |
| 71 47,649 2,707 .943,175 .056825 8.897 72 44,942 2,709 .937926 .062074 8.403 73 42,152 2,859 .932172 .067828 7,926 74 39,293 2,913 .925866 .074134 7,467 75 36,380 2,948 .918959 .0\$1041 7,025 70 33,432 2,962 .99140 .088598 6.600 77 30,470 2,952 .993140 .06860 6.103 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .815324 .104676 <td< td=""><td>70</td><td></td><td>2,616</td><td>.947959</td><td>.052041</td><td>9.408</td></td<> | 70 | | 2,616 | .947959 | .052041 | 9.408 |
| 73 42,152 2,859 .932172 .067828 7,926 74 39,293 2,913 .925866 .074134 7,467 75 36,380 2,948 .918959 .081241 7,025 76 33,432 2,962 .911402 .088598 6,600 77 39,470 2,952 .993140 .096860 6,193 78 27,518 2,913 .894115 .105885 5,864 79 24,605 2,848 .884266 .115734 5,431 80 21,757 2,752 .873529 .126471 5,077 81 19,005 2,655 .861839 .138161 4,740 82 16,380 2,472 .849127 .150873 4,419 83 13,908 2,290 .835324 .164676 4,116 84 11,618 2,087 .804170 .195830 3,557 86 7,664 1,634 7,86682 -213318 <td< td=""><td>71</td><td>47,649</td><td>2,707</td><td></td><td></td><td>8.897</td></td<> | 71 | 47,649 | 2,707 | | | 8.897 |
| 74 39.293 2.913 .925866 .074134 7.467 75 36.380 2.948 .918959 .081911 7.025 76 33.432 2.962 .911402 .088598 6.600 77 30.470 2.952 .993140 .096860 6.103 78 27,518 2.913 .804115 .115885 5.804 79 24.605 2.848 .884266 .115734 5.431 80 21,757 2.752 .873529 .126471 5.077 81 19,005 2.625 .861839 .138161 4.740 82 16,380 2.472 .849127 .150873 4.419 83 13,908 2.290 .835324 .164676 4.116 84 11,618 2.087 .820362 .179638 3.828 85 9,531 1.867 .804170 .195830 3.557 86 7,664 1.634 .78682 .23165 3. | 72 | 44,942 | 2,790 | | .062074 | 8.403 |
| 75 36,380 2,948 .918959 .0\$1041 7.025 76 33.432 2,962 .911402 .088598 6.600 77 30,470 2,952 .993140 .096860 6.193 78 27,518 2,913 .894115 .105885 5.804 79 24,695 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9.531 1,867 .894170 .105830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3 | | - | 2,859 | .932172 | | |
| 76 33.432 2,962 .911402 .088598 6.600 77 30,470 2,952 .993140 .096860 6.193 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150673 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .894170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.661 88 4 630 1,169 .747573 .252427 2. | 74 | 39,293 | 2,913 | .925866 | .074134 | 7.467 |
| 76 33.432 2,962 .911402 .088598 6.600 77 30,470 2,952 .993140 .096860 6.193 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150673 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .894170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.661 88 4 630 1,169 .747573 .252427 2. | 75 | 36,380 | 2,948 | ,918959 | 11.0120. | 7.025 |
| 77 30,470 2,952 .903140 .096860 6.193 78 27,518 2,913 .894115 .105885 5.804 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .894170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 | 76 | | | | .088598 | |
| 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 | 77 | | | | | 6.193 |
| 79 24,605 2,848 .884266 .115734 5.431 80 21,757 2,752 .873529 .126471 5.077 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 | 78 | 27,518 | | .894115 | .105885 | 5.80.4 |
| 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2.512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 <td>79</td> <td>24,605</td> <td>2,8.48</td> <td>.884266</td> <td>.115734</td> <td>5.431</td> | 79 | 24,605 | 2,8.48 | .884266 | .115734 | 5.431 |
| 81 19,005 2,625 .861839 .138161 4.740 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2.512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 <td>80</td> <td>21,757</td> <td>2.752</td> <td>.873520</td> <td>.126.171</td> <td>5.077</td> | 80 | 21,757 | 2.752 | .873520 | .126.171 | 5.077 |
| 82 16,380 2,472 .849127 .150873 4.419 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 | 81 | | 2,625 | .861830 | | |
| 83 13,908 2,290 .835324 .164676 4.116 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .531635 .468365 1.494 | | | | | | |
| 84 11,618 2,087 .820362 .179638 3.828 85 9,531 1,867 .804170 .195830 3.557 86 7,664 1,634 .786682 .213318 3.302 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2.512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 | 83 | 13,908 | | | | |
| 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501608 1.362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.1000 100 | 84 | 11,618 | 2,087 | .820362 | .179638 | 3.828 |
| 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501668 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.1000 100 8 5 .393471 .606529 1.000 101 3 | 85 | 0.531 | ı 867 | .80.1170 | .105830 | 3,557 |
| 87 6,030 1,400 .767835 .232165 3.061 88 4 630 1,169 .747573 .252427 2.836 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .5016c8 1.362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3< | 86 | | | | | |
| 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .5016c8 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | 87 | | | | | 3.061 |
| 89 3,461 949 .725845 .274155 2.625 90 2,512 747 .702613 .297387 2.427 91 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .5016c8 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | 88 | | | | | 2.836 |
| 9I 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501668 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | 89 | | | | | |
| 9I 1,765 569 .677852 .322148 2.243 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501608 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | 00 | 2 5 1 2 | 717 | | | 2 127 |
| 92 1,196 416 .651554 .348446 2.072 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501608 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | | 1.765 | | .677852 | | |
| 93 780 294 .623731 .376269 1.910 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501608 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | | | | .651551 | | |
| 94 486 197 .594421 .405579 1.763 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501608 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | | | | | | |
| 95 289 126 .563690 .436310 1.625 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .501668 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | | | | | | 1.763 |
| 96 163 76 .531635 .468365 1.494 97 87 44 .498392 .5016c8 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | | 280 | | | | 1.625 |
| 97 87 44 .498392 .5016c8 1 362 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | 95 | | | | | |
| 98 43 23 .464134 .535866 1.244 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | 97 | | | | | |
| 99 20 12 .429075 .570925 1.100 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | <u>9</u> 8 | | | .464134 | .535866 | |
| 100 8 5 .393471 .606529 1.000 101 3 2 .357620 .642380 .833 | | | | | .570925 | |
| 101 3 2 .357620 .642380 .833 | | 8 | 5 | .202171 | | 1.000 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

TABLE V.

Exposures and Deaths at integral ages attained

On the basis of three times the exposed and died

| Age Attained, | Inoce Ive Number Exposed. | Three Time: Number Dod. | Age Att tined. | Three Trans Number Expect. | Three Tim Num'er In d |
|------------------|------------------------------|----------------------------|----------------------|-------------------------------|--------------------------|
| | | | 60 | 4.850 | |
| 10 | 1.362 | 7 | 60 61 | 0,850 0,040 | 172 |
| 20 | 3-478 | 1.1 | 62 | 5.377 | 158 |
| 21 22 | 7.127 | 2.7 50 | 63 | 4.771 | 143 |
| 23 | 10,331 | 61 | 64 | 1,20.1 | 1 ! 1 |
| 24 | 16,344 | 86 | 60-64 | 27 251 | 7.30 |
| 20 24 | 50,793 | 2.4.4 | 65 | 3 684 | 122 |
| 25 | 18,803 | 113 | 66 | 3,103 | 116 |
| 26 | 21,133 | 116 | 67 68 | 2,733 2,346 | 105 |
| 27 | 23,245 | 10.1 | 69 | 1,984 | 87 |
| 28 29 | 25,215 26,844 | 135 | 65 69 | 13.940 | 27 |
| · · | | 582 | | 1,719 | 75 |
| 25 29 | 115 330 | | 70 71 | 1,473 | £3 |
| 30 | 28,284 | 150 142 | 72 | 1,229 | 80 |
| 31 32 | 29.540 30.423 | 145 | 73 | 1,005 | 66 |
| 33 | 31,020 | 178 | 74 | 813 | 60 |
| 34 | 31.422 | 207 | 70 74 | 6,230 | 373 |
| 30-34 | 150 680 | 822 | 75 | 671 | 54 |
| 35 36 | 31,560 | 102 | 76 | 555 45° | 4.2 |
| 36 | 31,404 | 206 | 77 78 | 337 | 50 |
| 37 38 | 31.052 | 173 184 | 79 | 243 | 35 |
| 39 | 30,503 29,832 | 206 | 75 79 | 2.250 | 228 |
| 35-39 | 154.351 | 970 | 80 | 178 | 20 |
| 40 | 29.138 | 232 | 81 | 129 | 20 |
| 41 | 28,269 | 185 | 82 | 88 60 | 17 |
| 42 | 27,266 | 162 | 83 84 | 44 | 1 3 |
| 43 | 26,153 | 102 | | | 80 |
| 44 40-44 | 24,852 135,678 | 193 964 | 80-84 85 | 499 33 | 4 |
| | | | 86 | 25 | 6 |
| 45 46 | 23,656 22,402 | 194 203 | | 11) | - 1 |
| 47 | 21.196 | 220 | 8 7 88 | 1.5 | I |
| 48 | 19.978 | 198 | 89 | 13 | 3 |
| 49 | 18,748 | 177 | 85 89 | 105 | 13 |
| 45-49 | 105.930 | 992 | 90 | 3 | 3 |
| 50 | 17.537 | 188 | 91 | 5 | 2 |
| 51 | 16,240 | 187 | 92 | ,3 ,3 | e e |
| 52 | 15.019 | 170 | 93 94 | 3 | 3 |
| 53 54 | 13,860 | 194 206 | 90 94 | 2.2 | 5 |
| 50 54 | 75-374 | 945 | 95 94 | 3 | ÷ ; |
| | 11,000 | 172 | 96 | .3 | 1 |
| 55 36 | 10,671 | 166 | 97 | 2 | 2 |
| 57 58 | 0.705 | 1/12 | 95 97 | Υ' | 3 |
| 58 | 8,786 | 173 | | | |
| 59 | 7.858 | 101 | | 200 | |
| 55 59 | 48,680 | 86.4 | Total. | 888.519 | 8.360 |

TABLE VI.

Mortality Experience, excluding the first five years of Assurance.

| Age x | $Exposed$ $E_{x^{-1}3}$ | Died $d_{x-\frac{1}{2}s}$ | Adjusted Annual Rates of Mortality. q_x | Age x | $E_{x-rac{1}{2}}$ | Died d_{x-V_3} | Adjusted Annual Rates of Mortality. |
|----------------------------|---------------------------------------|---------------------------|--|----------------------------|---|----------------------------|--|
| 25 26 27 28 29 | 282 913 1,433 2,061 2.658 | S 9 11 | .00639 .00641 .00644 .00648 .00652 | 50 51 52 53 54 | 4,726 4,453 4,196 3,957 3,688 | 44 57 49 54 66 | .01174 .01243 .01319 .01404 .01498 |
| 30 | 3,243 | 25 | .00657 | 55 | 3,427 | 52 | .01602 |
| 31 | 3,729 | 19 | .00662 | 56 | 3,195 | 51 | .01716 |
| 32 | 4,251 | 26 | .00668 | 57 | 2,932 | 51 | .01843 |
| 33 | 5,775 | 30 | .00674 | 58 | 2,684 | 49 | .01983 |
| 34 | 5,176 | 45 | .00681 | 59 | 2,459 | 60 | .02137 |
| 35 | 5.510 | 12 | .00690 | 60 | 2,151 | 57 | .02307 |
| 36 | 5.752 | 11 | .00701 | 61 | 1,918 | 48 | .02492 |
| 37 | 5.963 | 35 | .00715 | 62 | 1,727 | 49 | .02695 |
| 38 | 6.071 | 11 | .00731 | 63 | 1,562 | 51 | .02918 |
| 39 | 6.168 | 44 | .00749 | 64 | 1,381 | 33 | .03162 |
| 40 | 6,276 | 65 | .00770 | 65 | 1,213 | 38 | .03.430 |
| 41 | 6,240 | 5 ² | .00794 | 66 | 1,063 | 39 | .037.25 |
| 42 | 6,214 | 30 | .00820 | 67 | 909 | 36 | .0.40.49 |
| 43 | 6,163 | 49 | .00849 | 68 | 793 | 33 | .0.4405 |
| 44 | 6,010 | 56 | .00882 | 69 | 667 | 30 | .0.4795 |
| 45 | 5,844 | 54 | .00919 | 70 | 589 | 2.4 | .05223 |
| 46 | 5,681 | 50 | .00960 | 71 | 513 | 2.4 | .05694 |
| 47 | 5,462 | 65 | .01006 | 72 | 431 | 3.2 | .06213 |
| 48 | 5,244 | 54 | .01056 | 73 | 358 | 2.3 | .06784 |
| 49 | 4,959 | 46 | .01112 | 74 | 287 | 2.0 | 07413 |

TABLE VII.

SELECT TABLE.

Annual Bates of Mortality for different ages at entry and different periods since entry.

| | Years clapsed since date of entry. | | | | | | | | | | | | | |
|-----|------------------------------------|-------------|-----------|----------|----------|------------|-----|------------|--|--|--|--|--|--|
| Age | 0 | 1 | Ÿ | 3 | 4 | 5 or More. | Age | 5 or More. | | | | | | |
| | 9 [.x] | 7 [x-1] · 1 | 9 [1-2]-2 | 9[1-3]-3 | 9[[-1]+1 | 9 1 (5) | х | 7 1(5) | | | | | | |
| 20 | .00237 | | | | | | 55 | .01602 | | | | | | |
| 21 | .00238 | .00379 | | | | | 56 | .01716 | | | | | | |
| 22 | .00240 | .00383 | .00443 | | | | 57 | .018.43 | | | | | | |
| 23 | .00243 | .00386 | .00497 | .00573 | | | 58 | .01983 | | | | | | |
| 24 | .002.46 | .00389 | .00500 | .00570 | .00620 | | 59 | .02137 | | | | | | |
| 25 | .00250 | .00393 | .00503 | .00579 | .00622 | .00639 | 60 | .02307 | | | | | | |
| 26 | .00255 | .00397 | .00507 | .00582 | .00625 | .00641 | 61 | .02.492 | | | | | | |
| 27 | .00261 | .00.102 | .00511 | .20586 | .00628 | .00644 | 62 | .02695 | | | | | | |
| 28 | .00267 | .00407 | .00516 | .00590 | .00632 | .co648 | 63 | .02918 | | | | | | |
| 29 | .00273 | .00.113 | .00521 | .00595 | .00637 | .00652 | 64 | .03162 | | | | | | |
| 30 | .00281 | .00120 | .00527 | .00000 | .00642 | .00657 | 65 | .03.430 | | | | | | |
| 31 | .00289 | .00428 | .0053.4 | .00606 | .00647 | .00662 | 66 | .03725 | | | | | | |
| 32 | .00298 | .00.430 | .00541 | .00613 | .00653 | .00668 | 67 | .0.1049 | | | | | | |
| 33 | .00307 | 00444 | .00548 | .00620 | .00659 | .00674 | 68 | .04405 | | | | | | |
| 34 | .00317 | .00452 | .00557 | .00628 | .00666 | .00681 | 69 | .04795 | | | | | | |
| 35 | .00328 | .00461 | .00566 | .00637 | .00675 | .00690 | 70 | .05223 | | | | | | |
| 36 | .00340 | .00471 | .00577 | .00648 | .00687 | .00701 | 71 | .05694 | | | | | | |
| 37 | .00352 | .00482 | .00588 | .00661 | .0070t | .00715 | 72 | .06213 | | | | | | |
| 38 | .00365 | .00103 | 100001 | .00676 | .00716 | .00731 | 73 | .c6784 | | | | | | |
| 39 | .00378 | .00505 | .00615 | .00602 | .00734 | .00749 | 74 | .07413 | | | | | | |
| 40 | .00392 | .00518 | .00630 | .00710 | .00754 | .00770 | | | | | | | | |
| 4I | .00407 | .00532 | .00617 | .00730 | .00777 | .00704 | | | | | | | | |
| 42 | .00423 | .00547 | .00666 | .00753 | .00802 | .00820 | | | | | | | | |
| 43 | .00430 | .00563 | .00637 | .00778 | .00830 | .00849 | F | | | | | | | |
| 44 | .00456 | .00580 | .00710 | .00807 | .00862 | .00882 | † | | | | | | | |
| 45 | .00473 | .00500 | .00735 | .00839 | .00898 | .00010 | | | | | | | | |
| 46 | .00192 | .00620 | .00702 | .00874 | ,00938 | .00960 | | | | | | | | |
| 47 | .00511 | .006.13 | .00793 | .0012 | .00981 | .01000 | | | | | | | | |
| 48 | .005.31 | .00667 | .00827 | .0005.4 | .01029 | .01056 | | | | | | | | |
| 49 | .00551 | .00693 | 1.0800 | .01001 | .01082 | .01112 | | | | | | | | |
| 50 | .00573 | .00721 | .00075 | .01053 | 14.110. | .01171 | | | | | | | | |
| 51 | | .00750 | .500150 | 11110. | .01207 | .01243 | | | | | | | | |
| 52 | | 4 | .00000 | .01175 | .01280 | 01310 | | | | | | | | |
| 53 | 1 | | | .C1240 | .01301 | .01404 | | | | | | | | |
| 54 | | | | | .01451 | .01 108 | | | | | | | | |

TABLE VIII. ${\tt SELECT\ TABLE}.$ Values of t_x for different ages at entry and different periods since entry.

| | Years elapsed since date of entry. | | | | | | | |
|----------------------------|---|--|--|--|---|---|----------------------------|--|
| Age | 0 | 1 | 2 | 3 | 4 | 5 or More. | .45e | 5 or More. |
| .τ | [x] | <i>I</i> [.ε-1]÷1 | l _{[.r-2]+2} | I [.x-3]+3 | l [v-4]+4 | ! .r (5) | .1 | I _{.v. (5)} |
| 20 21 22 23 24 | 103,679 103,031 102,385 101,741 101,101 | 103,433 102,786 102,139 101,494 | 103,041 102,392 101,745 | 102,533 | | | 55 56 57 58 59 | 78,055 76,805 75,487 74,096 72,626 |
| 25 26 27 28 29 | 100,463 99,828 99,193 98,560 97,928 | 100,853 100,212 99.574 98,934 98,297 | 101,099 100,456 99,814 99,173 98,532 | 101,236 100,590 99,947 99,304 98,662 | 101.296 100,650 100,005 99,361 98.718 | 101,314 101,666 100,021 99,377 98,733 | 60 61 62 63 64 | 71.074 69,435 67,704 65,880 63,957 |
| 30 31 32 33 34 | 97,298 96,665 96,033 95,395 94,753 | 97,661 97,024 96,386 95,747 95,102 | 97,891 97,251 96,609 95,966 95,322 | 98,018 97,375 96,732 96,086 95,440 | 98,074 97,430 96,785 96,139 95,491 | 98,089 97,445 96,800 96,153 95,505 | 65 66 67 68 69 | 61,935 59,811 57,583 55,251 52,817 |
| 35 36 37 38 39 | 94,1°5 93,448 92,779 92,°97 91,4°1 | 94,453 93,796 93,130 92,452 91,761 | 94,672 94,017 93,354 92,681 91,996 | 94,791 94,137 93,475 92,806 92,124 | 94,840 94,187 93,527 92,857 92,178 | 94,855 94,200 93,540 92,871 92,192 | 70 71 72 73 74 | 50,285 47,658 44,945 42,152 39,293 |
| 40 41 42 43 44 | 90,690 89,962 89,212 88,436 87.633 | 91,056 90,335 89,596 88,835 88,048 | 91,297 90,584 89,854 89,105 88,335 | 91,431 90,722 89,998 89,256 88,493 | 91,487 90,781 90,060 89.320 88,561 | 91,502 90,797 90,076 89,337 88,579 | 75 | 36,380 |
| 45 46 47 48 49 | 86,802 86,052 85,043 84,106 83,125 | 87,234 86,391 85,432 84,608 83,659 | 87,537 86,711 85,855 84,883 84,044 | 87,707 86,893 86,051 85,175 84,266 | 87,779 86,972 86,134 85,266 84,363 | 87,798 86,991 86,156 85,289 84,388 | | |
| 50 51 52 53 54 | \$2,094 | 82,667 81,626 | 83.080 82,071 81,013 | 83,318 82,328 81,291 80,204 | 83,422 82,440 81,413 80,336 79.205 | 83,450 82,470 81,445 80,371 79,242 | | |

TABLE IX.

GRADUATED MORTALITY TABLE

Excluding the first five years of Assurance

CANADA LIFE EXPERIENCE

| Age. | Numeer Living, | Number Pying: | Trotalisty of Dying in a Year. | Complete Expectation of 1 ife. | Ase. | Number Living. | Number Dying. | Protability of Tyrigin a Your. | Complete Expedition of Infe. |
|------|-------------------|------------------|--------------------------------|--------------------------------------|------|-------------------|------------------|--------------------------------------|------------------------------------|
| | 7 _k | ď, | 4 : | e _t | | <i>I</i> , | $d_{,x}$ | 7. | , r |
| 25 | 101,314 | 648 | .00639 | 41.352 | 65 | 61,035 | 2,124 | .03430 | 12.182 |
| 26 | 100,066 | 645 | .00641 | 40.615 | 66 | 59,811 | 2,228 | .03725 | 11.597 |
| 27 | 100,021 | 644 | .00644 | 39.874 | 67 | 57.583 | 2,332 | .0.40.49 | 11.026 |
| 28 | 99.377 | 644 | .cc648 | 39.129 | 68 | 55,251 | 2,434 | .04405 | 10 471 |
| 29 | 98,733 | 644 | oc 652 | 38.381 | 69 | 52,817 | 2,532 | -0.1795 | 9.930 |
| 30 | 98,089 | 644 | .00657 | 37.630 | 70 | 50,285 | 2.627 | .05223 | 9.405 |
| 31 | 97-445 | 645 | .00662 | 36.875 | 71 | 47,658 | 2,713 | .05694 | . 8.896 |
| 32 | 96,800 | 647 | .00668 | 36.118 | 72 | 44.945 | 2,793 | .06213 | 8.403 |
| 33 | 96,153 | 648 | .00674 | 35-357 | 73 | 42,152 | 2,859 | .c6784 | 7 926 |
| 34 | 95,505 | 650 | .co681 | 34-594 | 74 | 39,293 | 2,913 | .07413 | 7 467 |
| 35 | 94,855 | 655 | .co690 | 33.8.8 | 75 | 36,380 | 2,948 | .08104 | 7.025 |
| 36 | 94,200 | 660 | .0701 | 33.059 | 76 | 33,432 | 2,962 | .08860 | 6.600 |
| 37 | 93,540 | 669 | .00715 | 32.289 | 77 | 30,470 | 2,952 | .05686 | 6.193 |
| 38 | 92,871 | 679 | .00731 | 31.518 | 78 | 27,518 | 2,913 | .10589 | 5.804 |
| 39 | 92,192 | 690 | .co749 | 30.746 | 79 | 2.4,605 | 2,848 | .11573 | 5.431 |
| 40 | 91,502 | 705 | .00770 | 29 975 | 8o | 21.757 | 2,752 | .12647 | 5.077 |
| 41 | 90.797 | 721 | .00794 | 29.203 | 81 | 19,005 | 2,625 | .13816 | 4.740 |
| 42 | 90,076 | 739 | .00820 | 28.433 | 82 | 16,380 | 2,472 | .15087 | 4.419 |
| 43 | 89,337 | 758 | .00849 | 27.664 | 83 | 13,908 | 2,290 | .16468 | 4.116 |
| 44 | 88,579 | 781 | .0882 | 26.897 | 84 | 11 618 | 2,087 | .17664 | 3 828 |
| 45 | 87.798 | 807 | .00919 | 26.131 | 85 | 9.531 | 1,867 | .19583 | 3.557 |
| 46 | 86,991 | 835 | .0060 | 25.309 | 86 | 7,664 | 1,634 | .21332 | 3.302 |
| 47 | 86,156 | 867 | .01 c 06 | 2.4.610 | 87 | 6,030 | 1,400 | .23217 | 3.061 |
| 48 | \$5,289 | 901 | .01056 | 23.855 | 88 | 4,630 | 1,1(9 | .25243 | 2.836 |
| 49 | 84,388 | 938 | .0[112 | 23.105 | 89 | 3,461 | 040 | .27416 | 2 625 |
| 50 | 83,450 | 980 | .01174 | 22.359 | 90 | 2,512 | 747 | .20730 | 2.427 |
| 51 | 82,470 | 1,025 | .01243 | 21.619 | 91 | 1,765 | 500 | .32215 | 2.243 |
| 52 | 81,445 | 1,07.1 | .01319 | 20,884 | 92 | 1,156 | 410 | -34845 | 2.072 |
| 53 | 80,371 | 1,129 | .01404 | 20.157 | 93 | 780 | 204 | .37627 | 1 010 |
| 54 | 79,242 | 1,187 | .01498 | 10.437 | 94 | 486 | 107 | .40558 | 1.763 |
| 55 | 78,955 | 1,250 | ,016c2 | 18.725 | 95 | 289 | 126 | -43531 | 1.625 |
| 56 | 76,805 | 1,318 | 01716 | 18,021 | 96 | 103 | 7.6 | .40837 | 1 494 |
| 57 | 75,407 | 1,301 | .01843 | 17.327 | 97 | 87 | 4.4 | .52101 | 1.302 |
| 58 | 74.096 | 1.470 | | 16,643 | 98 | 4.3 | 2.3 | -53507 | 1.244 |
| 59 | 72.020 | 1.552 | .02137 | 15 970 | 99 | 20 | 1.2 | .575 3 | 1.100 |
| 60 | 71,074 | 1,630 | .02307 | 15 308 | 100 | S | .5 | nenes | 1.000 |
| 61 | 69,435 | 1.731 | .02492 | 14.057 | 101 | .3 | .' | 64235 | .833 |
| 62 | 07.764 | 1,824 | .02105 | 1.(.014) | 102 | 1 | 1 | 1.10113 | .510 |
| 63 | 65,850 | 1,023 | .C2015 | 13 304 | | | | | |
| 64 | 63,957 | 2,022 | .03162 | 12 781 | | | | | |

 $\label{eq:table X.} \textbf{Annual Rate of Mortality, excluding the first five years of Assurance.}$

GRADUATED RESULTS.

| Aze | Canada Life. | Mutual Life of New York. | Hm. Table. | Age. | Canada Life | Mutual Life of New York. | Hm. Table. |
|------------|-----------------|-----------------------------|------------|------|----------------|-----------------------------|-----------------|
| | 9 .1 (5) | 9 .1 (5) | 4 2 (5) | | 9 2 (5) | 4.1 (5) | 9 a (5) |
| 25 | .006396 | .008258 | .010506 | 55 | .016014 | .015508 | .022187 |
| 26 | .006407 | .008282 | .010064 | 56 | .017160 | .016479 | .023506 |
| 27 | 006439 | .008310 | 009943 | 57 | .018427 | .017575 | .025075 |
| 28 | .006480 | .008341 | .009704 | 58 | .019839 | .018814 | .026577 |
| 29 | .006523 | .008376 | .009458 | 59 | .021370 | .020214 | .028360 |
| 30 | .006565 | .008416 | .009203 | 60 | .023060 | .021794 | .030638 |
| 31 | .006619 | oc8 5 60 | .009172 | 61 | .024930 | .023578 | .032916 |
| 32 | .006684 | .008512 | .009257 | 62 | .026941 | .025592 | .03558 3 |
| 33 | .006739 | .008569 | .009225 | 63 | .029189 | .027866 | .038500 |
| 34 | .006806 | .008634 | .009431 | 64 | .031615 | .030431 | .041710 |
| 35 | .006905 | .008708 | .010002 | 65 | .034294 | .033323 | .044614 |
| 36 | .007006 | .008791 | .010347 | 65 | .037251 | .036585 | .047836 |
| 37 | .007152 | .008885 | .010701 | 67 | .040498 | .040261 | .050957 |
| 3 8 | .207311 | .008992 | .011065 | 68 | .044054 | .044401 | .554449 |
| 39 | .007484 | .009112 | .011189 | 69 | .047939 | .049063 | .058118 |
| 40 | .007705 | .009248 | .011316 | 70 | .052242 | .054309 | .062836 |
| 4 I | .007941 | .009402 | .011317 | 71 | .056926 | .060207 | .068559 |
| 42 | .008204 | .009577 | .011576 | 72 | .062143 | 066834 | .075551 |
| 43 | .008485 | -009773 | .011844 | 73 | .067826 | .074273 | .083480 |
| 44 | .008817 | .009996 | .012252 | 74 | .074135 | .082616 | .092231 |
| 45 | .009192 | .010248 | .012943 | 75 | .031041 | .091961 | .099494 |
| 46 | .009599 | .010533 | .013659 | 76 | .088598 | .102417 | .108146 |
| 47 | .010063 | .010855 | .014402 | 77 | .096860 | .114098 | .115486 |
| 48 | .010564 | .011219 | .015315 | 78 | .105885 | .127128 | .124629 |
| 49 | .011115 | .011631 | .016267 | 79 | -115734 | .141633 | .134915 |
| 50 | .011744 | .012096 | .017116 | 80 | .126471 | .157750 | .145768 |
| 51 | .012429 | .012622 | .018005 | 81 | .138161 | . 175615 | .158716 |
| 52 | .013187 | .013217 | .018786 | 82 | .150873 | .195366 | .172301 |
| 53 | .014047 | .013890 | .019911 | 83 | .164676 | .217135 | .185770 |
| 54 | .014979 | .014650 | .020941 | 84 | .179638 | .241048 | .199030 |

TABLE XI.

EXPECTATION OF LIFE tecording to various Tables of Mortality.

| | CANADA. | UNITE | D STATES. | GRE | AT BRIT | AIN. | GERMANY | AUST | RALI A. |
|----------------------------|--|---|---|---|---|--|---|--|---|
| Nge. | C viada Tife. | Mutu d Mutua Life f Benefit New New Jers Virk. | a Lyper American | Equitable. | 1 aw Late. | Twenty Latish Office . He | Gotha Lice, | Δ is tradians Δ Δ α in Δ Δ α α | ductal Prov. |
| 20 21 22 23 24 | 46.240 45.462 44.673 43.881 43.089 | 41.09 44.26 43.53 42.80 42.07 | 41.53 42.359 40.85 41.646 40.17 40.030 30.40 40.211 | 41 670 40.974 40.266 39.555 38.840 | 42.90 42.16 41.42 40.67 39.91 | 42,06t 41,326 40,603 39,879 39,147 | 42.22 41.46 40.77 40.06 39.42 | 47.121 46.284 45.440 44.595 43.748 | 45.823 44.973 44.121 43.265 42.410 |
| 25 26 27 28 29 | 42.204 41.498 40.701 39.902 39.103 | 41 33 40.90 40.50 40 16 30.84 30.41 30.00 38 66 38.34 37.01 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 38 123 37.411 36.696 35.977 35.255 | 39.17 38.45 37.72 36.99 36.26 | 38.405 37.658 36.908 36.162 35.419 | 38.64 37.83 37.04 36.20 35.47 | 42 899 42.050 41 203 40.360 39 518 | 41.558 40.708 39.865 39.027 38.192 |
| 30 31 32 33 34 | 38.303 37.502 36.700 35.808 35.096 | 37·59 37·15 36·83 36·49 36·97 35·64 35·31 34·88 34·55 34·12 | 2 34.63 35.117 3 33.92 34.383 3 33.21 33.646 | 34 530 33.809 33.084 32.364 31.647 | 35 52 34.78 34.04 33 29 32.54 | 34.681 33.946 33.213 32.481 31.748 | 34 69 33.91 33.14 32.36 31.59 | 38.682 37.851 37.028 30.208 35.397 | 37·365 36·543 35·728 34·918 34·117 |
| 35 36 37 38 39 | 34,298 33 494 32 693 31.894 31 096 | 33.78 33.01 32.59 33.24 31.82 37.47 30.70 30.29 | 3 31.07 31.43.4 8 30.35 30.696 2 29.62 29.957 | 3° 934 3° 217 29 5° 3 28 7° 3 28 0° 2 | 31.79 31.05 30.31 29.58 28.85 | 31.016 30.286 29.560 28.838 28.118 | 30.85 29.99 29.22 28.46 27.71 | 34 59° 33.785 32.98° 32.179 31 379 | 33-317 32-521 31-728 30-938 30-148 |
| 40 41 42 43 44 | 30.209 29.505 28.713 27.924 27.137 | 29.93 29.53 20.15 28.76 26.38 27.99 27.61 27.23 26.83 26.47 | 4 27.45 27.747 0 26.72 27.013 4 26.00, 26.280 | 27 395 26 603 25.994 25.200 24.581 | 28.13 27.40 26.66 25.93 25.19 | 27 399 26 679 25.956 25.233 24 511 | 26.94 26.17 25.41 24.66 23.89 | 30.585 29 798 29.019 28 247 27 481 | 29.36.4 28.585 27.813 27.048 26.290 |
| 45 46 47 48 49 | 26 355 25.570 24 801 24.032 23 268 | 26.06 25.71 25 29 24.95 24.52 24.19 23.76 23.44 22.99 22.69 | 2 23.81, 24.090 6 23.08 23.377 4 22.36 22.660 | 23.873 23.174 22.469 21.766 21.065 | 24,46 23,75 23,04 22,34 21,66 | 23.792 23.079 22.375 21.679 20.989 | 23 13 22.40 21 66 20.05 20.22 | 26.721 25.964 25.210 24.461 23.716 | 25.538 24.790 24.042 23.299 22.561 |
| 50 51 52 53 54 | 22.500 21.757 21.012 20.275 19.545 | 22 23 21 94 21.48 21.20 20 73 20.47 19.98 19.74 19 24 19 02 | 0 20 20 20.539 4 19.49 19.843 5 1879 19.154 | 18.977 18.392 | 20.98 20.30 19.64 18.97 18.31 | 20.306 19.627 18.051 18.281 17.618 | 19 51 18.80 18.10 17:43 16 74 | 22.675 22.236 21.502 20.769 20.036 | 21.820 21.100 20.378 10.655 18.030 |
| 55 56 57 58 59 | 18.824 18.112 17.400 16.717 16.035 | 18.51 18.30 17.78 17.50 17.06 16.80 16.35 16.2 15.65 15.53 | 7 16 72 17.130 8 16.05 10.473 7 15.30 15 825 | 16 340 15.705 15.001 | 17.66 17.01 16.36 15.72 15.08 | 15.052 | 16.08 15.41 14.77 14.15 13.53 | 10.305 18.577 17.855 17.140 10.134 | 18,201 17,480 10,705 19,050 15,305 |

TABLE XI.—Continued.

EXPECTATION OF LIFE

According to various Tables of Mortality.

| | CANADA. | | UNITED | STATES. | | GRE | AT BRIT. | AIN. | GERMANY | AUST | RALIA, |
|----------|-----------------|-------------------|----------------------|--------------------|--------------------|----------------|----------------|-------------------|----------------|------------------|----------------|
| Age. | Canada | Motual Life of | Mutual Benefit of | American Exper- | Thirty American | Equitable, | l aw | Twenty British | Gotha | | Mutual Prov. |
| | Life. | New York. | New Jersey. | ience. | Offices, | | Life. | Offices. | Life. | Assumed Ages. | True Ages. |
| 60 61 | 15.365 | 14.96 14.28 | 14.854 | 14.10 | 14.559 13.942 | 13 911 | 14.44 13.81 | 13 830 | 12.95 12.36 | 15.736 15.046 | 14.692 |
| 62 | 14.061 | 13.62 | 13.545 | 12.86 | 13.336 | 12 789 | 13.19 | 13 237 | 11.79 | 14.365 | 13.374 |
| 63 | 13.420 | 12.96 | 12.908 | 12.26 | 12.743 | 12.231 | 12.58 | 12.005 | 11.23 | 13 696 | 12.754 |
| 64 | 12.810 | 12.32 | 12.284 | 11.67 | 12.162 | 11.680 | 12.00 | 11.547 | 10.67 | 13.049 | 12.170 |
| 65 | 12.205 | 11.70 | 11 673 | 11.10 | 11 595 | 11.134 | 11.43 | 11.012 | 10.15 | 12.429 | 11.608 |
| 66 | 11.615 | 11.08 | 11.076 | 10.54 | 11.040 | 10.609 | 10.89 | 10.489 | 9.64 | 11.841 | 11.086 |
| 67 63 | 11.039 | 1049 | 10.494 | 10.00 | 10.500 | 10.106 | 10.36 | 9.977 | 9.17 | 11.280 | 10.589 |
| 69 | 10.480 9.936 | 9.91 9.35 | 9.927 9.376 | 9.47 8.97 | 9-974 9-463 | 9.618 9.146 | 9.86 | 9.475 8.980 | 8.72 8.25 | 10.754 | 9.628 |
| 70 | 9.408 | 8.80 | 8,841 | 8.48 | 8.967 | 8.699 | 8.90 | 8.495 | 7.83 | 9.716 | 9.177 |
| 71 | 8.897 | 8.27 | 8.322 | 8.00 | 8.486 | 8 259 | 8.44 | 8.026 | 7.40 | 9.201 | 8 729 |
| 72 | 8.403 | 7.76 | 7.820 | 7.55 | 8.021 | 7.827 | 7.98 | 7.575 | 6.99 | 8.692 | 8.307 |
| 73 | 7.926 | 7.27 | 7.335 | 7.11 | 7.572 | 7.406 | 7.53 | 7.148 | 6.60 | 8.151 | 7.869 |
| 74 | 7.467 | 6.80 | 6.868 | 6.68 | 7.138 | 6.999 | 7.10 | 6.749 | 6,21 | 7.620 | 7.417 |
| 75 | 7.025 | 6.35 | 6.418 | 6.27 | 6.721 | 6.609 | 6.68 | 6.376 | 5.88 | 7.100 | 6.924 |
| 76 | 6.600 | 5.92 | 5 986 | 5.88 | 6.320 | 6.236 | 6.28 | 6.017 | 5.55 | 6.569 | 6.413 |
| 77 78 | 6.193 | 5.51 | 5-572 | 5.49 | 5.934 | 5.860 | 5.91 | 5.67.4 | 5.21 | 6.041 | 5.872 |
| 79 | 5.804 | 5.11 4.74 | 5.177 4.799 | 5.11 | 5.565 | 5.487 | 5.56 | 5 344 5.025 | 4.88 4.59 | 5.571 | 5.384 |
| | | | | | | * | | | | | |
| 80 | 5.077 | 4.39 | 4.439 | 4 39 | 4.873 | 4.754 | 4 92 | 4.719 | 4.20 | 4.733 | 4.589 |
| 81 82 | 4.710 | 4.06 | 4.097 | 4 05 | 4.550 | 4.4c6 4.086 | 4.62 | 4.433 | 3.99 3.69 | 4.401 | 4.294 |
| 83 | 4116 | 3.74 | 3.773 3.463 | 3.71 | 4.242 3.947 | 3.791 | 4.07 | 3 930 | 3.09 | 3.890 | 3.882 |
| 84 | 3 828 | 3.17 | 3.172 | 3.08 | 3.666 | 3 574 | 3.84 | 3.713 | 3.23 | 3 671 | 3.693 |
| 85 | 3.557 | 2.91 | 2.898 | 2.77 | 3 396 | 3.387 | 3 64 | 3.511 | 2.99 | 3-479 | 3.505 |
| 86 | 3 302 | 2.67 | 2.640 | 2.47 | 3.137 | 3.207 | 3.46 | 3.310 | 2.72 | 3.282 | 3.304 |
| 87 | 3.061 | 2.45 | 2.398 | 2.18 | 2.885 | 3.027 | 3.28 | 3.101 | 2.63 | 3.066 | 3 075 |
| 88 89 | 2.836 2.625 | 2.24 | 2.171 1.958 | 1.66 | 2.637 2.386 | 2.890 2.803 | 3.13 2.98 | 2.884 2.634 | 2.66 2.32 | 2.841 2.607 | 2.845 2.612 |
| 90 | 2.427 | 1.87 | 1.760 | 1.42 | 2.166 | 2.559 | 2.81 | 2 357 | 2.26 | 2 359 | 2.365 |
| 91 | 2.243 | 1.71 | 1.576 | 1.19 | 1.980 | 2.316 | 2.63 | 2.077 | 1.94 | 2.093 | 2.101 |
| 92 | 2.072 | 1 56 | 1,40. | .99 | 1.808 | 2.042 | 2.43 | 1.795 | 2 24 | 1.817 | 1.826 |
| 93 | 1.910 | 143 | 1.244 | .80 | 1.643 | 1.750 | 2.19 | 1.496 | 1.75 | 1.535 | 1.547 |
| 94 | 1.763 | 1.30 | 1.096 | .64 | 1.488 | 1 375 | 1.88 | 1.204 | ·75 | 1.245 | 1.258 |
| 95 | 1.625 | 1.19 | | .50 | 1.338 | 1.055 | 1.49 | .930 | .50 | -943 | .962 |
| 96 | 1.494 | 1.08 | .833 | | 1.176 | .750 | 1.02 | .684 | | .633 | .652 |
| 97 | 1.362 | .98 | .716 | | 1.033 | .500 | .50 | .500 | | .500 | .500 |
| | | | | | | | | | | | |

| | | | | | | | | Kati f C | anaria 136 | M- rtabl | ī |
|----------------------------|--|--|--|--|--|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Age. | Canada Life | American Experience. | Thirty American Offices | Institute of Actuarie H ^m | Mumal Life of New York | Modual Benefit of New Joiney. | American Esper- tence | The ty American Offices | Institute of Actions Ho | Mortin Life 1 New York | Marcal Proste New Ivery |
| | | | | | | | | - | | | |
| 20 21 22 23 24 | .00463 .00467 1 .00471 .00475 .00480 | .00781 .00786 .00791 .00796 .00801 | .00676 .00681 .00686 .00697 | .00633 .00673 .00684 .00676 .0064 | .00615 | | .59 .60 .60 | .69 .69 .69 .69 | .73 .69 .69 .70 | .75 .76 .76 .76 | |
| 25 26 27 28 29 | .00.486 | .00807 .00813 .00820 .00826 | .00703 .00712 .00710 .00728 | .0-663 .00009 .0009 .00717 .00743 | .co628 .o2632 .co636 .o2640 .o0646 | .00629 .00634 .00640 .00046 | .60 .61 .61 .61 | .69 .69 .70 | -73 -74 -72 -71 -69 | 77 -78 -78 -79 -80 | -77 -78 -78 -78 |
| 30 31 32 33 34 | 00524 .00534 .00545 .00557 | .00843 .00851 .00861 .00872 .00883 | .00749 .00760 .00773 .00787 .00803 | .00772 .00792 .00811 .00829 | .00651 .00658 .00665 .00673 | .00660 .00669 .00678 .00688 .00700 | .62 .63 .63 .64 .65 | .70 .70 .70 .71 | .68 .67 .67 .67 | .8c .81 .82 .83 | .79 .8c .50 .81 |
| 35 36 37 38 39 | 00385 00601 .00619 .00639 | .00895 .00909 .00923 .00941 | .00821 .00839 .00859 .00883 | .00877 00911 .00946 .00978 01008 | .co692 .oo704 .co716 .oc730 | .00713 .00727 .00742 .00760 | .65 .66 .67 .68 | .71 .72 .72 .72 .73 | .67 .66 .65 .65 | .85 .85 .88 .88 .88 | .82 .83 .83 .84 .85 |
| 40 41 42 43 44 | .00685 .00712 .00711 .00774 .00809 | .00970 | .00936 .00965 .01000 .01035 | .01031 .01040 .01073 .01113 | .0076; .0078; .00806 .00831 .00859 | .00801 .00824 .00851 .00880 | .70 .71 .72 .74 | -73 74 74 75 -75 | .66 .68 .69 | 000.01.02.03.03 | .86 .50 .87 .85 |
| 45 46 47 48 49 | .co8.48 .co8.92 .co9.40 .co9.92 | 01116 .01156 .01200 .01251 | .01120 01169 .01223 .01281 01346 | .01210 .01204 .01370 .01444 .01522 | .00890 .00925 .00964 .01508 | 00048 .00088 .01032 .01081 .01130 | .76 .78 .78 .79 80 | .76 76 77 -77 -78 | .70 .60 .60 .60 | .05 .06 .08 .08 | .89 .90 5 5 6 6 9 6 |
| 50 51 52 | 71114 11185 1263 | 01378 .01454 .01530 | .01418 .01400 .1581 | .01505 01667 .01755 | .01111 .01172 .01241 | .01196 01263 .01337 | .81 .82 .83 | 70 ~() ~ () | .70 | I 00 I I I I 2 | . () |

TABLE XII.—Continued.

Canada Life Annual Rates of Mortality compared with those of other Tables.

GRADUATED TABLES USED.

| | | | | İ | | | R | tatio of Ca | nada Life | Mortality | to |
|----------------------------------|--|--|--|--|--|--|--|---------------------------------|--------------------------------------|--------------------------------------|--|
| Age. | Canada Life. | American Experience. | Thirty American Offices. | Institute of Actuaries. Hm. | Mutual Life of New York. | Mutual Benefit of New Jersey. | American Exper- ience. | Thirty American Offices. | Institute of Actuaries. Hm. | Mutual Life of New York, | Mutual Benefit of New Jersey. |
| 53 54 | .01348 | .01633 | .01675 | 01860 | .01317 | .01420 | .83 .83 | .80 .81 | .72 -73 | 1.02 1.03 | ·95 ·95 |
| 55 56 57 58 59 | .01547 .01661 .01787 .01926 | .01857 01989 .02134 .02294 | .01893 .02017 .02156 .02306 | .02103 .02245 .02399 .02563 | .01498 .01605 .01725 .01858 .02008 | .01613 .01725 .01850 .01988 | .83 .84 .84 .84 | .82 .82 .83 .84 | ·74 ·74 ·74 ·75 ·75 | 1.03 1.03 1.04 1.04 | .96 .96 .97 .97 |
| 60 61 62 63 64 | .02248 .02434 .02638 .02863 .03110 | .02669 .02888 .03129 .03394 .03687 | .02653 .02853 .03070 .03311 | .02968 .03204 .03464 .03749 .04041 | .02175 .02361 .02569 .02802 .03062 | .02311 .02500 .02709 .02942 .03199 | .84 .84 .84 .84 .84 | .85 .85 .86 .86 | .76 .76 .76 .76 .77 | 1.03 1.03 1.03 1.02 1.02 | .97 .97 .97 .97 .97 |
| 65 66 67 68 69 | .03382 .03681 .04010 .04371 .04768 | .04013 .04371 .04765 .05200 .05676 | .03864 .04179 .04528 .04904 .05324 | .04343 .04657 .04989 .05323 .05734 | .03351 03675 .04035 .04437 .04885 | .03485 .03801 .04153 .04543 | .84 .84 .84 .84 .84 | .88 .88 .89 .89 | .78 .79 .80 .82 .83 | 1.01 1.00 .99 .99 | .97 .97 .97 .96 |
| 70 71 72 73 74 | .05204 .05683 .06207 .06783 | .06199 .06767 .07373 .08018 | .05778 06278 .06822 .07415 .08071 | .06219 .06805 .07494 .08286 | .05384 .05939 .06557 .07243 .08006 | .05454 .05986 .06576 .07230 .07956 | .84 .84 .84 .85 .85 | .90 .90 .91 .91 | .84 .84 .83 .82 | .97 .96 .95 .94 .93 | .95 .95 .94 .94 .93 |
| 75 76 77 78 79 | .08104 .08860 .09686 .10589 | .09437 .10231 .11106 .12083 | .08779 .09550 .10400 .11318 | .09836 .10637 .11469 .12321 .13306 | .08852 .09789 .10827 .11975 .13242 | .08761 | .86 .87 .87 .88 .88 | .92 ·93 ·93 ·94 ·94 | .82 .83 .84 .86 .87 | .92 .91 .89 .88 .87 | .93 .92 .91 .90 .89 |
| 80 81 82 83 84 85 | .12647 .13816 .15087 .16468 .17964 .19583 | .14447 .15861 .17435 .19156 .21136 | .13407 .14583 .15870 .17246 .18752 .20363 | .14465 .15804 .17135 .18585 .19888 .20989 | .14638 .16174 .17861 .19709 .21727 .23927 | .14313 .15812 .17414 .19318 .21364 .23632 | .88 .87 .87 .86 .85 .83 | .94 .95 .95 .95 .96 | .87 .87 .88 .89 .90 | .86 .85 .84 .84 .83 | .88 .87 .87 .85 .84 .83 |

TABLE XIII.

Exposed to Risk and Died in quinquennial groups of ages,

Also the Expected Deaths by other Tables of Mortality.

| | Canada L | ife. | | | | Expected | Deaths | by other | Tables. | | | |
|--------------------|---------------------------------|---------|--------------------------|-----------------------------|----------------------------|--------------------|--------------------------------|---------------------|---------------------|----------------|----------------------|-----------------|
| | | | | UN: | ITED STAT | EG. | | GREAT B | BITAIN, | JEBMANT | ATOTE | ALIA. |
| Completed Ages. | Exposed to Risk. | Died | Munual Life of New | Mutual Benefit of New | Connecti- cut Mutual | American Exper- | Thirty American Offices. | Hm. Table, | Scottish Widows' | Gotha Life, | Australia Prov. S | |
| | | | York. | Jersey. | (Males.) | ience | (Males) | | Fund. | Diffe. | Assumed Ages. | Altual Agesi |
| 20-24 | 16931. | Sī | 109. | 118.7 | 134.6 | 133.9 | 116.3 | 110.5 | 72.8 | 118.3 | 57.6 | 56.9 |
| 25-29 | 38443.3 | 194 | 234.9 | 266. | 280 3 | 315.2 | 262.2 | 265.3 | 176.8 | 227.2 | 151.1 | 161.1 |
| 30-34 | 50229.7 | 27.4 | 333-5 | 341. | 344.1 | 433- | 350.1 | 412.4 | 266.2 | 342.1 | 243.1 | 267.2 |
| 35-39 | 51450.3 | 323 | 394.1 | 369.9 | 392.6 | 475.9 | 406.5 | .490 3 | 360.2 | 410.1 | 317.4 | 344.7 |
| 40-44 | 45226. | 321 | 349.6 | 389.8 | 396 2 | 464.5 | 424.7 | 482.6 | 402.5 | 430.1 | 358.6 | 380.4 |
| 45-49 | 35310. | 331 | 351.3 | 352.4 | 363. | .125.8 | 380.6 | 480.9 | 360.2 | 456.2 | 352. | 377.8 |
| 50-54 | 25124.7 | 315 | 312. | 339.2 | 332.7 | 388.4 | 347.7 | 436.2 | 354.3 | 438.2 | 3138 | 353 3 |
| 55-59 | 16229.7 | 288 | 267.8 | 304.6 | 289.4 | 347.8 | 302.7 | 389.4 | 360.3 | 412.9 | 257-4 | 282.9 |
| 60-64 | 9083.7 | 245 | 233.6 | 245.3 | 2.10.4 | 285. | 243 4 | 315.8 | 289.8 | 338.6 | 208.5 | 248.3 |
| 65-69 | 4646.7 | 176 | 189. | 185.8 | 179.8 | 221.5 | 177.3 | 233.1 | 203.5 | 267.6 | 191.6 | 224.5 |
| 70-74 | 2079.7 | 124 | 124.2 | 135.8 | 107.6 | 152.3 | 115.5 | 152.4 | 142.5 | 175.4 | 105.3 | 137 6 |
| 75-79 | 753- | 76 | 74.6 | 75.8 | 75.5 | 828 | 63.5 | 82.8 | 72.9 | 91.5 | 65.2 | 56.2 |
| 20-79 | 295507 8 | 2748. | 29736 | 3124.3 | 3136.2 | 3726.1 | 3190.5 | 3 ⁸ 57·7 | 3062. | 3708.2 | 2621.6 | 2890.9 |
| | ize of Canada I dher Lybles, | ife | 92.4 | 88. | 87.6 | 73.8 | 86.1 | 71.2 | 89.7 | 7.‡ 1 | 10.4.8 | 95.1 |

TABLE XIV.

Annual Rate of Mortality per cent, in quinquennial groups of ages.

| Completed Ages. Canada Life. | | 5 | UNITED STATES. | S | | GREAT | GREAT BRITAIN. | GERMANY | AUSTRALIA. | TALIA. |
|-------------------------------|--------------------------------|-------------------------------------|------------------------------------|-------------------------|-----------------------------------|-------------------------------------|------------------------------|----------------|---------------------|----------------------------------|
| Canada Life. | | | | | | | | | Australian Mutu | Australian Mutual Prov. Society. |
| | Mutual Life of New York. | Mutual Benefit of New Jersey. | Connecticut Mutual. (Males.) | American Experience. | Thirty American Offices. (Males.) | Institute of Actuaries. Hm | Scottish Widows' Fund. | Gotha Life. | At Assumed Ages. | At Actual Ages. |
| 20-24+80 | .644 | .701 | .795 | 162. | .687 | 889. | .430 | 669. | .340 | .336 |
| 25-29 .505 | .611 | 269. | .729 | .820 | .682 | 069. | 09†" | 165. | .393 | 614: |
| 30-34 .545 | ÷99: | 629. | .685 | .862 | 269. | .821 | .530 | 189. | .484 | .532 |
| 35-39 .628 | 992: | 612. | .763 | .925 | 062. | .953 | .700 | 767. | 219. | .670 |
| 40-44 | .773 | .862 | 928. | 1.027 | .939 | 190.1 | .890 | 156. | .793 | .841 |
| 45-49 .936 | 366. | 866. | 1.028 | 1.206 | 1.078 | 1.362 | 1.020 | 1.292 | 266. | 1.070 |
| 50-54 1.254 | 1.242 | 1.350 | 1.324 | 1.546 | 1.384 | 1.736 | 1.410 | 1.744 | 1.249 | 1.406 |
| 55-59 1.775 | 1.650 | 1.877 | 1.783 | 2.143 | 1.865 | 2.399 | 2.220 | 2.544 | 1.586 | 1.743 |
| 60-64 2.701 | 2.572 | 2.700 | 2.647 | 3.138 | 2.680 | 3.477 | 3.190 | 3.728 | 2.295 | 2.733 |
| 65-69 3.780 | 4.067 | 3.999 | 3.870 | 4.766 | 3.816 | 5.017 | 4.380 | 5.760 | 4.124 | 4.831 |
| 70-74 5 979 | 5.974 | 6.532 | 5.174 | 7.321 | 5.556 | 7.329 | 6850 | 8.432 | 5.062 | 6.617 |
| 75-79 10.092 | 9.903 | 090 01 | 10.033 | 10.998 | 8.437 | 10.999 | 9.680 | 12.150 | 8.659 | 7.468 |

Actual Deaths by years of Assurance in the Canada Life Assurance Company,

*Compared with Expected Deaths by other Table**

TABLE XV.

ALL AGES COMBINED.

| Veni † V stitus e | Fxp.sc., * Kisk of Death. | Duo | Motual Life of New York. | Connecticut Mutual (Males.) | Mutual Benefit | II + Lable | The sty Answer to Office ((Male)) | As trainer Mot Pray Tent Solety Grant |
|-------------------------|------------------------------|------|-----------------------------|-----------------------------------|-------------------|------------|------------------------------------|--|
| I | 34046 | 112 | 100.5 | 251. | 205.5 | 150.5 | 21.4. | 123.5 |
| 2 | 27534 | 158 | 178.5 | 224.5 | 2 C (). | 210. | 223. | 132.5 |
| 3 | 24478 | 1.48 | 186.5 | 109. | 210. | 242 | 225.5 | 133. |
| 4 | 22066 | 140 | 188.5 | 2015 | 213.5 | 254. | 220.5 | 129.5 |
| 5 | 10751 | 125 | 183.5 | 189. | 209. | 260. | 215.5 | 135. |
| 6 | 17898 | 139 | 180 5 | 199.5 | 197. | 234. | 2035 | 131. |
| 7 8 | 16384 | 134 | 169.5 | 178. | 167 5 | 233-5 | 1015 | 133. |
| 8 | 14801 | 135 | 164.5 | 167.5 | 168. | 221.5 | 182. | 126.5 |
| 9 | 13508 | 123 | 135.5 | 168. | 161. | 207. | 161.5 | 134.5 |
| 10 | 12306 | 112 | 1.41.5 | 148 5 | 1.40.5 | 200.5 | 151.5 | 122. |
| 11 | 11081 | 105 | 135. | 140. | 152. | 199 5 | 1.11. | 103.5 |
| 12 | 10043 | 104 | 1.42.5 | 132.5 | 1 3 2 | 179.5 | 134. | 1055 |
| 13 | 8908 | 85 | [2]. | 121.5 | 124. | 177.5 | 133. | 108. |
| 14 | 7870 | 83 | 82.5 | 121. | 122. | 168. | 110.5 | 03.5 |
| 15 | 7036 | 89 | 86. | 112 | 106.5 | 160.5 | 103. | 91. |
| 16 | 0323 | 89 | 91.5 | 108.5 | 92.5 | 154 | 03.5 | 87. |
| 17 | 5733 | 7.4 | 97- | 123.5 | 103. | 146 | 00. | 85 5 |
| 18 | 5155 | 70 | 96. | 85. | 85.5 | 123.5 | 88.5 | 88. |
| 19 | 4588 | 64 | 85.5 | 91.5 | 72.5 | 130.5 | 76.5 | 65. |
| 20 | 4073 | 59 | 77.5 | 73 | 86.5 | 116. | 78.5 | 78. |
| 21 | 3547 | 65 | 57.5 | 77.5 | 75.5 | 105. | 68.5 | 67.5 |
| 22 | 2956 | 5.5 | 63. | 71.5 | 71. | 98. | 6.4. | 70 |
| 23 | 2413 | 17 | 64. | 55. | 69. | 83 | 59.5 | 5.4. |
| 24 | 1011 | 37 | 57 | 58.5 | 62. | 64.5 | 51. | 42. |
| 25 | 1637 | 46 | 53.5 | 46. | 45.5 | 61. | 45- | 47-5 |
| 26 | 1438 | 35 | 38. | 45- | 59. | 56. | 40. | 4 ‡ |
| 27 | 1266 | 4.4 | 38. | 36. | 38. | 50 | 30 | 35. |
| 28 | 1 0 t) O | 2() | 24.5 | 20). | 30. | 44. | 31.5 | 2.1 |
| 29 | 980 | 4.3 | 26. | 34- | 42. | 44.5 | 3.5 | 21.5 |
| 30 | 858 | 3.3 | 21.5 | 35. | 34.5 | 4.4. | 23 | 32.5 |
| I 30 | 291738 | 2577 | 3155.5 | 3526 5 | 3.481. | 4433- | 3502.5 | 2641.5 |
| 7.5 | 127875 | 683 | 906 5 | 1071 | 1044 | 1122.5 | 1098 5 | 6555 |
| 1 5 6-30 | 163863 | 189; | 2249 | 2455-5 | 2437 | 33105 | 2404 | 1688 |
| ~ 3° | ,, | , + | 1 - 4.7 | 1402,0 | - + 1/ | 33.0 | 1 7 | |

TABLE XVI.

Annual Rate of Mortality by Years of Assurance.

ALL AGES COMBINED.

| | Year Exposed to | | | | | Mortality | per cent-per c | инит. | |
|--------------------------|---|---------------------------------|--|----------------------------------|---|---|---|--|--|
| Year of Assurance. | Exposed to Risk of Death. | Died. | Mortality per cent, per annum. Canada Life. | Mutual Life of New York. | Connecticut Mutual. (Males.) | Mutual Benefit. | Hm Table. | Thirty American Offices. (Males.) | Australian Mutual Prov. Society, (1888.) |
| I 2 3 | 34046 | 112 | .329 | .498 | .746 | .604 | ·459 | .629 | .363 |
| | 27534 | 158 | .574 | .649 | .816 | .749 | .762 | .810 | .482 |
| | 24478 | 148 | .605 | .761 | .812 | .858 | .989 | .921 | .543 |
| 4 5 | 22066 19751 | 140 | .631 | .855 .928 | .927 .956 | .968 1.058 | 1.150 | 1.000 | .586 .684 |
| 6 7 8 9 10 | 17898 16384 14861 13508 12306 | 139 134 135 123 112 | .777 .818 .908 .911 | 1.008 1.035 1.107 1.002 | 1.114 1.086 1.127 1.242 1.207 | 1.101 1.021 1.131 1.192 1.141 | 1.308 1.425 1.489 1.534 1.630 | 1.136 1.168 1.225 1.196 1.231 | .732 .812 .852 .995 |
| 11 | 11081 | 105 | .948 | 1.220 | 1.262 | 1.370 | 1.801 | 1.273 | .934 |
| 12 | 10043 | 104 | 1.036 | 1.419 | 1.320 | 1.312 | 1.789 | 1.336 | 1.049 |
| 13 | 8908 | 80 | .898 | 1.360 | 1.365 | 1.392 | 1.992 | 1.491 | 1.214 |
| 14 | 7870 | 83 | 1.055 | 1.050 | 1.536 | 1.553 | 2.132 | 1.406 | 1.188 |
| 15 | 7036 | 89 | 1.265 | 1.223 | 1.635 | 1.514 | 2.282 | 1.464 | 1.290 |
| 16 | 6323 | 89 | 1.408 | 1.444 | 1.719 | 1.461 | 2.439 | 1.477 | 1.376 |
| 17 | 5733 | 74 | 1.291 | 1.691 | 2.155 | 1.794 | 2.551 | 1.727 | 1.489 |
| 18 | 5155 | 70 | 1.358 | 1.861 | 1.550 | 1.662 | 2.398 | 1.716 | 1.707 |
| 19 | 4588 | 64 | 1.395 | 1.861 | 1.989 | 1.577 | 2.845 | 1.664 | 1 442 |
| 20 | 4073 | 59 | 1.449 | 1.900 | 1.791 | 2.128 | 2.842 | 1.923 | 1.921 |
| 21 | 3547 | 65 | 1.833 | 1.618 | 2.180 | 2.131 | 2.964 | 1.934 | 1.898 |
| 22 | 2956 | 55 | 1.861 | 2.125 | 2.424 | 2.402 | 3.317 | 2.162 | 2.375 |
| 23 | 2413 | 47 | 1.948 | 2.644 | 2.288 | 2.864 | 3.432 | 2.460 | 2.237 |
| 24 | 1911 | 37 | 1.936 | 2.992 | 3.060 | 3.235 | 3.376 | 2.670 | 2.210 |
| 25 | 1637 | 46 | 2.810 | 3.278 | 2.816 | 2.779 | 3.712 | 2.751 | 2.908 |
| 26 | 1438 | 35 | 2.434 | 2.634 | 3.139 | 4 091 | 3.902 | 2.799 | 3.069 |
| 27 | 1266 | 44 | 3.476 | 3.016 | 2.834 | 2.992 | 4.650 | 3.078 | 2.756 |
| 28 | 1090 | 29 | 2.661 | 2.252 | 2.681 | 2.773 | 4 045 | 2.892 | 1.942 |
| 29 | 980 | 43 | 4.388 | 2.632 | 3.453 | 4.288 | 4.526 | 3.543 | 2.194 |
| 30 | 858 | 33 | 3.846 | 2.495 | 4.064 | 3.995 | 5.153 | 2.692 | 3.790 |
| 1-30 | 291738 | 2577 | .883 | 1.081 | 1 209 | 1.193 | 1.519 | 1.197 | .905 |
| 1-5 | 127875 | 683 | ·534 | .709 | .838 | .816 | .878 | .859 | .511 |
| 6-30 | 163863 | 1894 | 1.156 | 1.372 | 1.499 | 1.487 | 2 019 | 1.461 | |

TABLE XVII.

Ratio of A tual Death to Expected Death- by other Mortality Tables.

ACCESS COMBINED

| V at f | Mon al Tue of New York | Concerto it Mutual. (Males.) | Mutcal Benefit of New Jersey. | H: 1.0 | Thirty Amer an Office (Males) | A train Mateal Provided to liety, 1588 |
|--------|---------------------------|------------------------------------|----------------------------------|--------|-------------------------------------|---|
| | | o | , | • | - , | • |
| I | 66.1 | 44.1 | 54.5 | 71.6 | 52.3 | 92.7 |
| 2 | 88 5 | 70.4 | 76.7 | 75.2 | 70.9 | 119.2 |
| 3 | 79.4 | 74-4 | 70.5 | 61.2 | 65.6 | 111.3 |
| 4 | 74.3 | 68.5 | 656 | 55.1 | 63.5 | 1.801 |
| 5 | 68.1 | 66.1 | 59.8 | 48.1 | 58. | 92.6 |
| 6 | 77. | 69.7 | 70.6 | 59-4 | 68.3 | 106.1 |
| 7 | 79.1 | 75.3 | Šo. | 57-4 | 70. | 100.8 |
| 7 8 | 82.1 | 80.6 | 80.4 | 60.9 | 74.2 | 106.7 |
| 9 | 90.8 | 7.3.2 | 76.4 | 59-4 | 76.2 | 91.4 |
| ΙÓ | 70.2 | 75.4 | 79-7 | 55.9 | 73-9 | 91.8 |
| 11 | 77.8 | 75. | 69.1 | 52.6 | 74.5 | 101.4 |
| 12 | 73. | 78.5 | 78.8 | 57.9 | 77.6 | 98.6 |
| 13 | 66.1 | 65.8 | 64.5 | 45.1 | 60.2 | 74.1 |
| 14 | 100.6 | 68.6 | 68. | 49-4 | 75.1 | 88.8 |
| 15 | 1035 | 77.4 | 83.6 | 55.5 | 86.4 | 97.8 |
| 16 | 97.3 | 82. | 96.2 | 57.8 | 95.2 | 102.3 |
| 17 | 763 | 59.9 | 71.8 | 50.7 | 74.7 | 86.5 |
| 18 | 72.9 | 87.5 | 81.9 | 56.7 | 79.1 | 79-5 |
| 19 | 74.9 | 69 9 | 88.3 | 49. | 83.7 | 97. |
| 20 | 76.1 | 80.8 | 68.2 | 50.9 | 75.2 | 75.6 |
| 21 | 113. | 83.9 | 86.1 | 61.9 | 94-9 | 96 3 |
| 22 | 87.3 | 76.9 | 77.5 | 56.1 | 85.9 | 78.6 |
| 23 | 73.4 | 85.5 | 68. i | 56.6 | 79. | 87. |
| 24 | 64.9 | 63.2 | 59.7 | 57.4 | 72.5 | 88.1 |
| 25 | 86. | 100. | 101.1 | 75.4 | 102.2 | 96.8 |
| 26 | 02.1 | 77 S | 59-3 | 62.5 | 87.5 | 79.5 |
| 27 | 115.8 | 122.2 | 115.8 | 74.6 | 1128 | 125.7 |
| 28 | 118.4 | 100. | 96.7 | 65.9 | 92.1 | 138.1 |
| 29 | 165.4 | 126.5 | 102.4 | 96.6 | 122.9 | 200. |
| 30 | 153.5 | 94-3 | 95.7 | 75. | 143.5 | 101.5 |
| _ | - | | | en- | | - |
| 1-30 | 81.7 | 73-1 | 7.4 | 58 1 | 73.6 | 97.6 |
| - | | - | | - | | - |
| 1-5 | 75-3 | 63.8 | 65 \$ | 60.8 | 62.2 | 104.5 |
| 6 30 | 84.2 | 77.1 | 77.7 | 57 2 | 78.8 | 953 |
| | | | | | | • • |

TABLE XVIII.

PART 1.—Experience during the First Five Years of Assurance.

| | Canada | Life. | | | Ехре | cted Deaths | by | |
|--------------|----------|-------|---------------------------------------|------------------------------------|--------------------------------|------------------------------|-------------------------------|--|
| Actual Ages. | Exposed. | Died. | Mutual Ben- efit of New Jersey. | Connecticut Mutual. (Males.) | Mutual Life of New York. | Scottish Widows' Fund. | H ^m (05) Table. | Australian Mutual Prov. Society, 1888. (Assumed Ages.) |
| 19-24 | 17086. | 83.5 | 119. | 141.5 | 112. | 68.5 | 111. | 54.5 |
| 25-29 | 30109.5 | 138.5 | 211.5 | 205 5 | 170.5 | 114.5 | 185. | 116. |
| 30-34 | 28300. | 123.5 | 175. | 181. | 168.5 | 127.5 | 210.5 | 123.5 |
| 35-39 | 21731. | 112.5 | 152. | 153.5 | 151.5 | 119.5 | 175.5 | 124.5 |
| 40-44 | 14467. | 73- | 120. | 119. | 98. | 94. | 128.5 | 96.5 |
| 45-49 | 8492.5 | 65. | 81. | 76.5 | 78. | 65.5 | 100. | 64.5 |
| 50-54 | 4537-5 | 42.5 | 59. | 52.5 | 46.5 | 36. | 56.5 | 50. |
| 55-59 | 1958. | 23.5 | 34. | 36.5 | 28.5 | 36. | 38. | 20. |
| 60-64 | 657.5 | 13.5 | I 4. | 15.5 | 15. | 15. | 19. | 17.5 |
| 65-69 | 209.5 | 4-5 | 7. | 5. | 9. | 7.5 | 8. | 5.5 |
| 19-69 | 127548.5 | 680. | 972.5 | 986.5 | 877.5 | 684. | 1032. | 672.5 |

PART 2.—Experience excluding the First Five Years of Assurance.

| | Canada | a Life | | | Expe | ected Deaths | by | |
|--------------|----------|--------|-------------------------------------|------------------------------------|--------------------------------|------------------------------|------------------------------|---|
| Actual Ages. | Exposed. | Died. | Mutual Benefit of New Jersey. | Connecticut Mutual. (Males.) | Mutual Life of New York. | Scottish Widows' Fund. | H ^m (5) Table. | Australian Mutual Prov. Society, 1888 (Assumed Ages.) |
| 24-29 | 8510. | 55.5 | 54. | 80.5 | 75. | 67. | 79.5 | 35. |
| 30-34 | 21929.5 | 150.5 | 169.5 | 172. | 187.5 | 142.5 | 207. | 121.5 |
| 35-39 | 29719.5 | 210.5 | 219. | 248. | 261. | 238. | 319.5 | 196. |
| 40-44 | 30759. | 248.5 | 271.5 | 282.5 | 270.5 | 304.5 | 358. | 269 5 |
| 45-49 | 26817.5 | 265.5 | 273. | 296. | 282.5 | 289.5 | 384. | 296.5 |
| 50-54 | 20587. | 272.5 | 281.5 | 287. | 283.5 | 313. | 386.5 | 267. |
| 55-59 | 14271.5 | 264 5 | 272.5 | 251. | 2.49. | 322.5 | 356.5 | 243. |
| 60-64 | 8426.5 | 231.5 | 236.5 | 227.5 | 225. | 274.5 | 301. | 190. |
| 65-69 | 4437- | 171.5 | 181. | 176.5 | 179.5 | 195.5 | 228.5 | 185. |
| 70-74 | 2061.5 | 121.5 | 135. | 106.5 | 126. | 142.5 | 153. | 105. |
| 75-79 | 753⋅ | 76. | 76. | 75. | 75.5 | 73. | 84. | 65.5 |
| 80-84 | 166.5 | 28.5 | 25.5 | 23 | 21.5 | 24. | 27.5 | 18.5 |
| 85-88 | 30.5 | 5. | 8.5 | 5. | 2.5 | 7. | 7. | 6.5 |
| 24-88 | 168469. | 2101.5 | 2203.5 | 2230.5 | 2239. | 2393.5 | 2892 | 1999. |

PART I Annual Rate of Mortality per cent.

First Fire Years of Issurance

TABLE XIX.

| 1 | C C. Lite | More in the New Jercey. | Concernate Methal. (Male) | Market I o New Yark | W. | 1 i | Ac Metal |
|-------|-----------|-------------------------|---------------------------|------------------------|-------|-------|----------|
| | | - | | - | | | |
| 19-24 | .489 | .090 | .827 | .055 | 10 | .649 | -310 |
| 25-29 | .400 | .702 | .683 | -507 | .38 | .615 | -380 |
| 30-34 | .436 | .619 | .6.40 | .595 | .45 | .743 | -43" |
| 35 39 | .518 | .700 | .706 | .607 | ·55 | .808 | -571 |
| 40 44 | .505 | .820 | .823 | .670 | .65 | .889 | . (16)7 |
| 45 49 | .765 | -954 | .900 | .921 | .77 | 1.177 | .755 |
| 50 54 | .037 | 1.205 | 1.157 | 1.028 | .70 | 1.247 | 1.104 |
| 55-59 | 1.200 | 1.730 | 1.875 | 1.450 | 1.85 | 1.042 | 1.030 |
| 60 64 | 2.053 | 2,12, | 2.305 | 2.270 | 2,25 | 2.905 | 2.678 |
| 65-69 | 2.148 | 3.352 | 2.328 | 4.180 | 3.64 | 3.832 | 2.519 |
| 70-74 | * * | | 5-357 | 4-545 | 4.03 | 5.963 | |
| 75-77 | | | 16.667 | 7.615 | 10.13 | 0.550 | • • |
| 19-77 | .533 | 856 | .838 | .743 | .605 | -957 | -531 |

PART 2.—Annual Rate of Mortality per cent.

Excluding First Five Years of Assurance.

| Age | Canalla Tife | Multill herefit of New Jersey. | Car section Mutual, (Male .) | Matual Life of New York. | Soutish Widows Final. | H Latte. | $\begin{array}{ccc} X_1 & & X_1 \\ P_2 & S & t_2 & & \\ CM(X) & & (A, -) \end{array}$ |
|--|---|--|--|---|---|--|--|
| 24 29 30-34 35 39 40-44 45-49 50-54 55-59 60-64 65-69 70 74 75 79 80 84 | .051 .687 .709 .857 .990 1.324 1.855 2.750 3.801 5.904 10.106 | .037 .774 .737 .882 1 018 1.367 1.910 2.509 4.682 6.542 | .947 .784 .834 .919 1.103 1.395 1.757 2.098 3.982 5.171 10.000 | 881 .854 .879 .879 1.053 1.377 1.743 2.669 4.945 6.166 | .79 .65 .80 .99 1.08 1.52 2.26 3.26 4.41 6.01 9.68 14.38 | -937 -943 1.075 1.164 1.432 1.878 2.497 3.571 5.140 7.411 11.127 | 114 555 666 .876 1.1-5 1.206 1.7-2 2.253 4.172 5.103 5.714 |
| \$5-88 | 10.013 | 1 115 | 10.36.4 | 1,251 | 1.07 | 22.570 | 1.200 |

TABLE XX.

PART 1.—Annual Rates of Mortality per cent. for Central Ages at entry, by quinquennial years of assurance.

| Central | | Years of Assurance. | | | | | | | | | | | |
|------------------|-------|---------------------|-------|-------|-------|--------|----------|--|--|--|--|--|--|
| Age at Entry. | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | Over 30. | | | | | | |
| 20 | .566 | .644 | .720 | | | | | | | | | | |
| 25 | .450 | .639 | .637 | .898 | 1.345 | 1.362 | | | | | | | |
| 30 | .435 | .673 | .784 | .956 | 1.465 | 2.591 | 3.629 | | | | | | |
| 35 | .499 | .8.10 | 1.085 | 1.146 | 1.933 | 4.007 | 4.646 | | | | | | |
| 40 | .508 | .870 | 1.157 | 1.732 | 2 888 | 4.018 | 6.277 | | | | | | |
| 45 | .732 | 1.335 | 1.384 | 2.304 | 3.279 | 5.381 | 13.111 | | | | | | |
| 50 | .913 | 1.994 | 2.692 | 3.380 | 7 407 | 11.297 | 20 536 | | | | | | |
| 55 | 1.089 | 2.527 | 3.086 | 6.977 | 9 453 | | | | | | | | |
| 60 | 2.038 | 2.387 | 6.011 | | | | | | | | | | |

PART 2—Annual Rates of Mortality per cent. for Ages at Exposure, by quinquennial years of assurance.

| Ages at | Years of Assurance. | | | | | | | | | | |
|----------------------|---------------------|-------|-------|--------|--------|--------|----------|--|--|--|--|
| Exposure. (n. b.) | 1-5 | G-10 | 11-15 | 16-20 | 21-25 | 26-30 | Over 30. | | | | |
| 20-24 | .475 | | | | | | | | | | |
| 25-29 | .473 | .638 | | | | | | | | | |
| 30-34 | .436 | .655 | .731 | | | | | | | | |
| 35-39 | .513 | .662 | .640 | 1.163 | | | | | | | |
| 40-44 | .503 | .809 | .837 | .825 | .571 | | | | | | |
| 45-49 | .717 | .920 | .851 | 1.083 | 1.320 | 2.083 | | | | | |
| 50-54 | .965 | 1.339 | 1.277 | 1.035 | 1.489 | 1.623 | 1.277 | | | | |
| 55-59 | 1.157 | 1.811 | 1.481 | 1.624 | 2.000 | 2.222 | 2.260 | | | | |
| 60-64 | 1.972 | 2.335 | 2.488 | 2.454 | 2.516 | 3.913 | 3.028 | | | | |
| 65-69 | 2.183 | 3.110 | 3.758 | 3.279 | 4.290 | 4 417 | 3.552 | | | | |
| 70-74 | | 5.618 | 5.769 | 6.920 | 5.045 | 4.910 | 5.760 | | | | |
| 75-79 | | | | 10.959 | 12.632 | 11.278 | 7.966 | | | | |

TABLE XXI.

Commutation and Life Annuity Values, Canada Life Experience,

Excluding the First Five Years of Assurance.

INTEREST AT 4° ...

| A_Se . | $\mathcal{D}_{\mathbf{r}}$ | N_x | a_x | Age. | $\mathcal{D}_{\mathbf{x}}$ | N_x | a_{x} |
|----------------------------|--|--|--|----------------------------|--|---|--|
| 25 26 27 28 29 | 38005. 36309. 34089 33140. 31050. | 708880. 672571. 637882. 604742. 573092. | 18.6523 18.5235 18.3886 18.2481 18.1072 | 65 66 67 68 69 | 4839.1 4493.5 4159.7 3837.7 3527.6 | 41545·5 37052·0 32892·3 29054·6 25527·0 | 8.5854 8.2458 7.9974 7.5708 7.2364 |
| 30 31 32 33 34 | 30243. 28889. 27594. 20355. 25171. | 542849. 513960. 486366. 460011. 434840. | 17.9496 17.7909 17.6258 17.4544 17.2754 | 70 71 72 73 74 | 3229 3 29,42.9 2668.6 24,06.5 2157.0 | 22297.7 19354.8 16686.2 14279.7 | 6.9048 6.5768 6.2528 5.9338 5.6202 |
| 35 36 37 38 39 | 24038, 22954, 21916, 20922, 19971, | 410802. 387848. 365932. 345010. 325039. | 17.0897 16.8968 16.6970 16.4903 16.2755 | 75 76 77 78 79 | 1920 3 1696.8 1487.0 1291.3 | 10202 4 8505.6 7018.6 5727.3 4617.23 | 5.3129 5.0127 4.7200 4.4353 4.1593 |
| 40 41 42 43 44 | 19059. 18185. 17346. 16542. 15771. | 305980. 287795. 270449. 253907. 238136. | 16.0544 15.8260 15.5914 15.3492 15.0996 | 80 81 82 83 84 | 943.91 792.82 657.00 536.42 430.85 | 3673.32 2880.50 2223.50 1687.08 1256.23 | 3.8916 3.6332 3.3843 3.1451 2.9157 |
| 45 46 47 48 49 | 15031. 14320. 13732. 12981. | 223105. 208785. 195053. 182072. 169723. | 14 8430 14.5800 14.2043 14.0260 13.7439 | 85 86 87 88 89 | 339.86 262.79 198.78 1.46.76 105.50 | 916.37 653.58 451.80 308.04 202.546 | 2.6963 2.4871 2.2880 2.0989 1.9199 |
| 50 51 52 53 54 | 11742. 11158. 10596. 10054. 9531.4 | 157981, 146823, 136227, 126172.8 | 13.45.44 13.1585 12.8565 12.5495 12.2376 | 90 91 92 93 94 | 73.629 49.743 32.421 20.312 12.182 | 128.917 79.174 46.753 26.441 14.2593 | 1.7509 1.5917 1.4421 1.3017 1.1705 |
| 55 56 57 58 59 | 9027.5 8541.3 8071.8 7618.4 7180.0 | 107613.9 99072.6 910008 83382.4 76202.4 | 11.9207 11.5992 11.273) 10.9449 10.6131 | 95 96 97 98 99 | 6 9626 3-7738 1 9291 -92448 -41258 | 7 2967 3.5220 1.59382 .6603; .25676 | 1.0480 -9335 .8262 -7240 .6223 |
| 60 61 62 63 64 | 6756 3 6346.7 5950.4 5567.4 5197.0 | 69,446.1 63,999.4 571.49 0 51 81.6 46384.6 | 10.2787 9.0421 9.6542 9.2649 8.9253 | 100 101 102 | .17022 .064400 .022145 | .086545 | .5084 -3439 |

TABLE XXIV.

Rate of Discontinuance per cent. by years of Assurance.

| Year f A- | Mutnal Life of New York. | Australian Mutual Provident Society. (1888.) | Thirty American Offices. (Male Lives.) | Hm. Table. | Twenty-three German Offices. |
|---------------------------------|--|--|--|---|---|
| 0 1 2 3 4 5 6 | 5 4 10.0 6.8 4.8 3 8 3.3 2.6 | 12 3 13.6 4.1 2.4 2.4 2.3 2.3 | 9.58 18.26 10.38 8.40 6.97 6.08 5.02 | 2.7 7.0 4.9 4.1 3.3 2.8 2.4 | 10.2 5.3 4.1 3.1 2.7 2.1 |
| 7 8 9 10 | 3.8 2.0 2.2 1.8 | 2.2 2.0 1 8 | 5.40 3.45 2.93 2.76 | 3.6 1.8 1.5 | 1.8 1.5 1.3 |
| 11 12 13 14 | 2 0 1 9 1.9 2.1 | 1.7 1.7 1.4 1.6 | 2.41 1.91 1.59 1.79 | 1.5 1.4 1.2 1.2 | 1.2 1.0 .9 .8 |
| 16 17 18 19 20 | 1.6 1.4 1.3 1.0 | 1.6 1.5 1.7 1.5 | 1.13 .89 .88 .79 .79 | .8 .8 .8 | .6 .7 .5 .5 |
| 21 22 23 24 | 1.3 1.4 1.4 .6 | 1.8 1 6 1.2 1.6 | .77 .70 .63 .45 | .7 .8 .6 .6 | ·5 ·4 .6 ·7 |
| 25 26 27 28 29 | .5 .9 .9 .4 2.1 | 1.8 1.5 1.3 | .44 .83 .54 .70 | .7 .6 .4 .5 | ·4 ·5 ·7 ·6 ·5 |
| 30 31 32 33 34 | .9 | 1.4 .8 1.1 2.7 | .60 | ·3 ·4 ·5 ·3 ·2 | ·4 ·5 ·7 1.0 .6 |
| 35 36 37 38 39 | | .0 6.2 5.1 .0 | | .6 .4 .0 .3 .0 | .5 ‡ .9 1.0 |
| 40 41 42 43 44 | 1 | | 1 | .4 .5 .0 1.3 | 1.3 .0 .0 2.8 3.7 |

TABLE XXV.

Discontinuances in Quinquennial Periods.

| Park Park Years Necond Five Years Plaint | | | | | -0 | | S | <u></u> | | ۲٥. | 0 | 0 | 0 | 1 0 |
|--|-------------|---|-------------------------------|-----------------|-------|--------|---------|----------|-------|-------|-------|-------|-----------|-----------------|
| Place Proc Nears Second Fibe Vears Third Five Years Third Five | 17. | | 16 a combination of the | '() | í, | 7 | S+: | .59 | 9 | 1.53 | 0, | 00. | 0.0 | , |
| Prof. Part. Vert. Prof. Part. Prof. Pa | | | | 11 | ** | 10 | 9 | 11. | _ | ~1 | 0 | 0 | 0 | 2 |
| First Part Nears Second Five Vears Third Five Years Fronth | (1) | | | | 266 | 1141 | 1251 | × × | 406 | | 2.1 | 0 | 9 | 9244 |
| Phot Part Vairs Second Five Vears Third Five Years Fourth Five Vears Puth Five Vears Such Five Vears Puth | ŧ | | miren be com | je t | 91. | Š. | 0 | 15. | 91. | 1.50 | 1.53 | 00. | 00. | 0 |
| Prof. Prof. Nears. Second Five Years. Third Five Years. Prof. Prof. Nears. Prof. Nears. Prof. Prof. Nears. Prof. Ne | IVE YES | | | 1 € [| - | 1 1 | 9 | ro | - | 7 | - | 0 | 0 | 12.7 |
| First Pase Years. Second Five Years. Third Five Years. From the Five Years. Third Five Years. Third Five Years. Third Five Years. Third Five Years. From the Five Years. Third Five Years. From the First Years. From the First Years. Fr | Sixth 1 | | | | 119 | 1342 | 1.483 | 963 | 979 | 25.1 | 99 | ** | V. | 5353 |
| Prince Park Years, Second Pice Vears. Third Five Years, Fourth Five Vears, Colored Five Vears, Fig. | | | nii) an 1-1 cent | MILL | 9‡… | SS. | -75 | .81 | .38 | .32 | | 00. | 0 | 89. |
| Prince Park Years, Second Pice Vears. Third Five Years, Fourth Five Vears, Colored Five Vears, Fig. | ive Ve. | | Saottentijus | obid | 1- | 95 | 53 | <u>s</u> | 10 | ¢1 | 12 | 0 | 0 | 20 |
| First Pive Years Second Five Years Third Five Years Fourth Five Years | Litch 1 | | | | 1535 | 5646 | 3076 | 2222 | 1327 | 632 | 221 | 9 | × | 12010 |
| Third Pive Nears, Second Five Nears, Third Five Years, Fourth Five Nears, Third Five Years, Third Five Of Third Five | 17. | | qua - 29d Sootuuniquo | Dir | .6. | :78 | .s. | 62: | .87 | 98. | 143 | 1.20 | 00. | .80 |
| That have Nears Second Five Nears Third Five Nears Third Five Nears Third Five Nears Third Five Nears Second Five Nears Second Five Near Third Five Near Second Five | Five Ve | - | .esomaniin - | Disc | 23 | 25 | 50 | 36 | 7. | 7 | × | _ | 0 | 203 |
| Prince Prince Acears Second Five Acars Third Five Years Color Five Acars Second Five Acars Third Five Year Color Five Acars Five Acars Five Acars Color Five Acars Col | Fourth | | | | 3604 | 1919 | 1109 | 4554 | 2774 | 1392 | 260 | 991 | 29 | 25254 |
| First Prec Years Necond Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears | rats. | | ntinunces ber centi | osia | 1.22 | 1.22 | 7:1: | 1.35 | 16: | 1.20 | 60.1 | 1.23 | 0.5 | 01.1 |
| First Prec Years Necond Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears Necond Five Vears Color Five Vears | Five Y | | <-pouenumu | Disco | 53 | 131 | 113 | 10.1 | 43 | 3.1 | 13 | ır, | C) | 525 |
| Hust have Years Necond Five Ye | Third | | | | 1289 | 10747 | 8066 | 9692 | 1707 | 2588 | 1190 | 901 | 66 | 79144 |
| 27364 2191 8.01 12 27364 2191 8.01 12 27364 2191 8.01 12 22 25 1 7.71 18 80 6.34 7 1675 7.71 18 80 6.34 7 1675 7.79 4.78 8078 436 5.40 4.72 6.35 7 4.88 | Fedrs. | | адалия — Бек септ | Dist | 2.2.2 | 96.1 | 2.39 | 2.08 | 2.29 | 2.18 | 1.52 | 1.80 | 2.32 | 2.1.5 |
| 27364 2191 8.01 12 27364 2191 8.01 12 27364 2191 8.01 12 22 25 1 7.71 18 80 6.34 7 1675 7.71 18 80 6.34 7 1675 7.79 4.78 8078 436 5.40 4.72 6.35 7 4.88 | Five | - | -someniju | ≥;iŒ | 17 | 35.4 | 382 | 25.5 | 174 | 96 | 32 | 5 | 9 | 1586 |
| 27364 2191 35101 2705 30372 2251 22256 1537 14031 890 8078 436 3930 219 1675 79 | Second | _ | 30 Arist of Lo- ramenation | Discon Lybor | 12300 | 1809.1 | 1.601.4 | 12100 | 2600 | 1011 | 2101 | 833 | 259 | 73816 |
| 39.37 3.93 1.163 1.163 1.163 1.163 1.163 1.163 | | 1 | nn - res ber cent | i sjeI | 8.01 | 7.71 | 711 | 6.91 | 6.3.4 | 540 | 5.57 | +72 | 4.88 | 7.21 |
| 273.6 35510 3037 1163 807 1163 633 633 633 633 633 633 633 633 63 | Pive Years. | | ы пределения | : !et | 1017 | 2705 | 1522 | 1537 | 800 | 436 | 219 | 10 | 31 | 10339 |
| 10 24 15 29 10 34 15 29 10 44 15 39 10 54 16 54 |) Live | | j deliki i s su muri | | t9822 | 35101 | 30372 | 22256 | 15011 | 8078 | 39,30 | 1675 | 635 | 1.43.4.42 |
| 4466 | | · | 4 T G | | 20-24 | 25 29 | 30 34 | 35 39 | 40-44 | 45-49 | 50 54 | 55-59 | 60 & ov'r | All'ages (43442 |

TABLE XXVI.

Comparison of the Rates of Discontinuance per cent. in groups of Years of Assurance and groups of Ages at Entry.

Australian Mutual Provident Society (1888), and Mutual Life of New York (1873).

| | First Fiv | e Years. | Second Fi | ve Years. | Third Fiv | e Years. | Fourth F | ive Years. | Fifth Fi | e Years. | Sixth Fi | e Years. |
|----------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|
| Ages at Entry. | A. M. P. Society. | Mutual Life cf New York. | A. M. P. Society. | Mutual Life of New York. | A. M. P. Society. | Mutual Life of New York, | A. M. P. Society. | Mutual Life of New York. | A. M. P. Society. | Mutual Life of New York. | A. M. P. Society. | Mutual Life of New York. |
| 20-24 | 9.1 | 10.3 | 2.1 | 3.8 | 1.5 | ι.8 | .9 | 1.5 | .9 | .9 | -7 | .6 |
| 25-29 | 8.7 | 7.8 | 2.0 | 3.2 | 1.5 | 1.7 | 0.1 | 1.4 | 1.2 | 1.1 | 2.1 | ٠5 |
| 30-34 | 7.3 | 6.2 | 2.1 | 3.0 | 1.5 | 1.8 | 1.5 | 14 | 1.6 | 1.2 | 1.3 | .8 |
| 35-39 | 6.5 | 5 8 | 2.0 | 2.8 | 1.6 | 2.I | 1.8 | 1.4 | 1.9 | 13 | 1.7 | .6 |
| 40 -44 | 5.7 | 5.3 | 2.2 | 2.8 | 1.7 | 2 1 | 1.9 | 1.4 | 2.1 | 1.4 | 1.3 | .6 |
| 45 49 | 5.5 | 5.0 | 2.4 | 2.5 | 1.9 | 2. I | 2.3 | 1.0 | 2.0 | 1.1 | I. I | I.2 |
| 50-54 | 4 5 | 4.7 | 2.2 | 2.3 | 2 3 | 1.8 | 2.4 | 1.6 | I.2 | 1.4 | 1.6 | 5.1 |
| 55-59 | 4.8 | 4.7 | 2.4 | 1.4 | 2.3 | 1.6 | 1.9 | .9 | 2.3 | 2.5 | 2.6 | |
| 60 & over. | 5.6 | 3.3 | 4.5 | 3.3 | 3.1 | 3.2 | 5.5 | | 6.1 | | 28_6 | |

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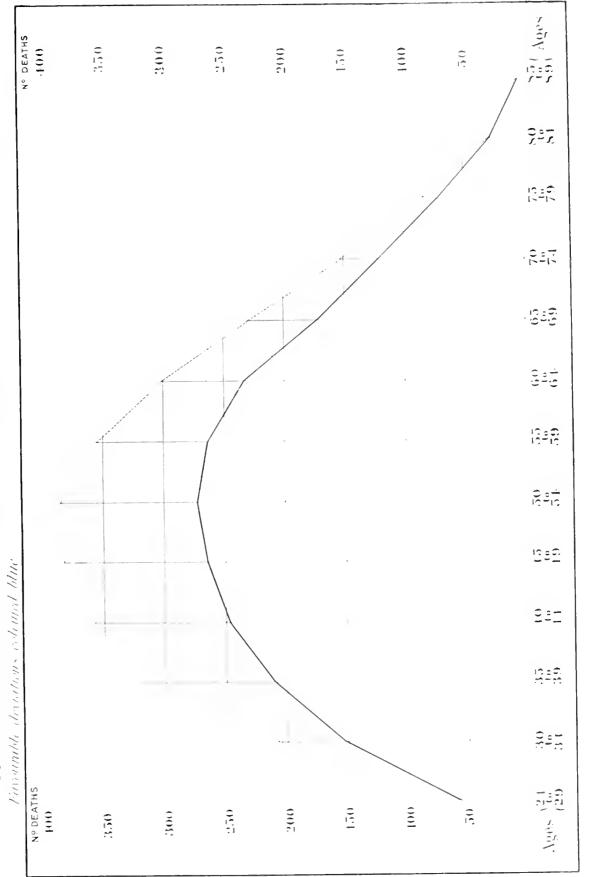
Nº DEATHS - 150 100 0000 300 0000 00.1 150 00 90 IN GROUPS OF FIVE AGES, COMPARED WITH THE EXPECTED NUMBER BY THE 30 AMERICAN OFFICES' TABLE. · 2 = 7 ACTUAL NUMBER OF DEATHS 13:27 -RET ·6:3 , G = 5 13:55 Pissundste desactions coloured blue Unjusuable nd . G.:T 12:2 9:5 13:53 937 18128 1. Said. Nº DEATHS 001 001 150 150 022 00: 000 0.07 93

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COMPARED WITH THE EXPECTED NUMBER BY THE INSTITUTE OF ACTUARIES HM EXPERIENCE ACTUAL DEATHS IN GROUPS OF FIVE AGES, EXCLUDING FIRST FIVE YEARS OF ASSURANCE.



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ACTUAL DEATHS IN GROUPS OF FIVE AGES, EXCLUDING THE FIRST FIVE YEARS OF ASSURANCE.

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COMPARED WITH THE EXPECTED NUMBER BY THE EXPERIENCE OF THE MUTUAL LIFE OF NY ACTUAL DEATHS IN GROUPS OF FIVE AGES EXCLUDING FIRST FIVE YEARS OF ASSURANCE,

250 Voes NO DEATHS 5.5 001: 9=7 13.55 Towned blue, Infer wordle rol Fin amount of the williams of 9:1 =

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